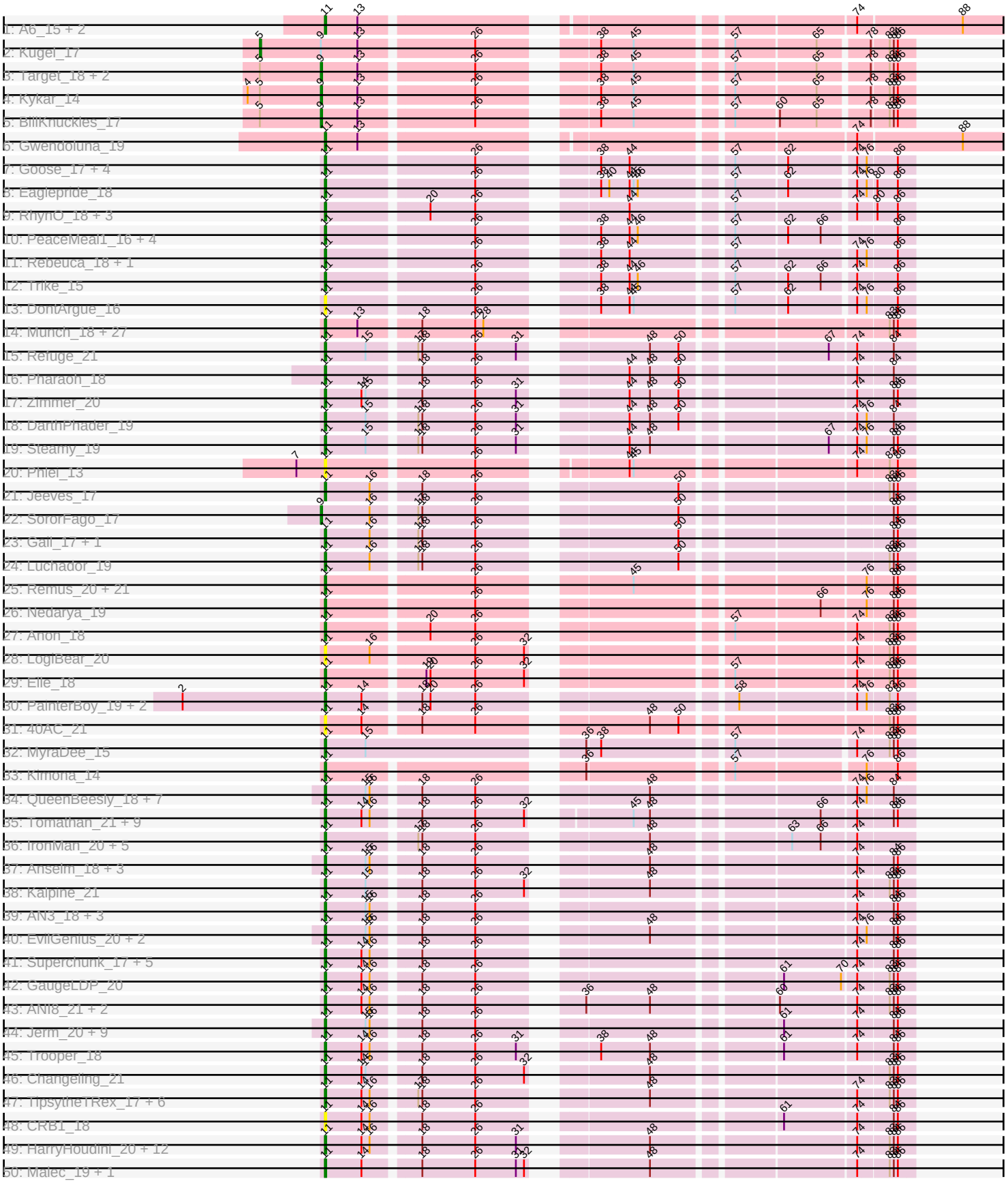
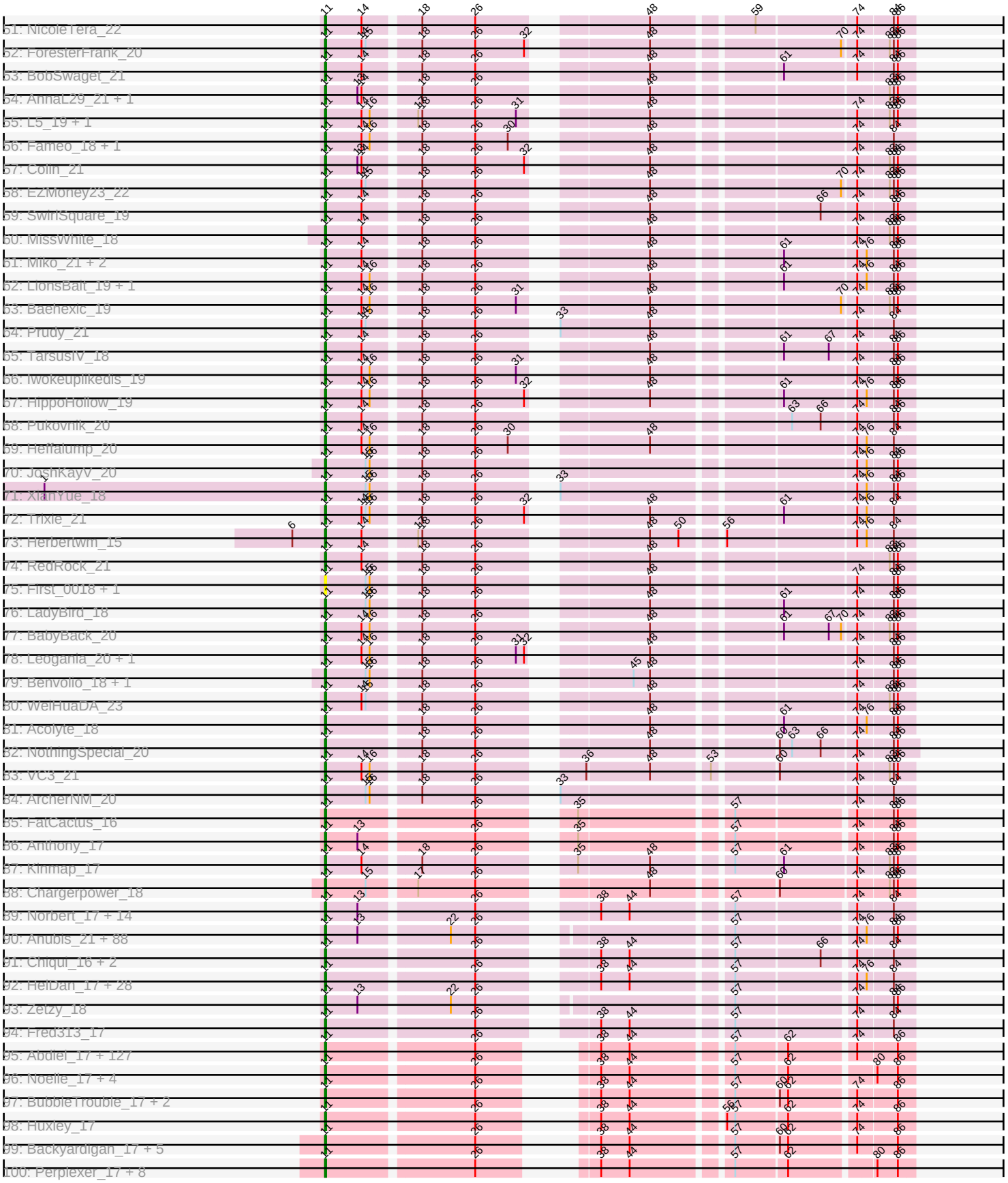
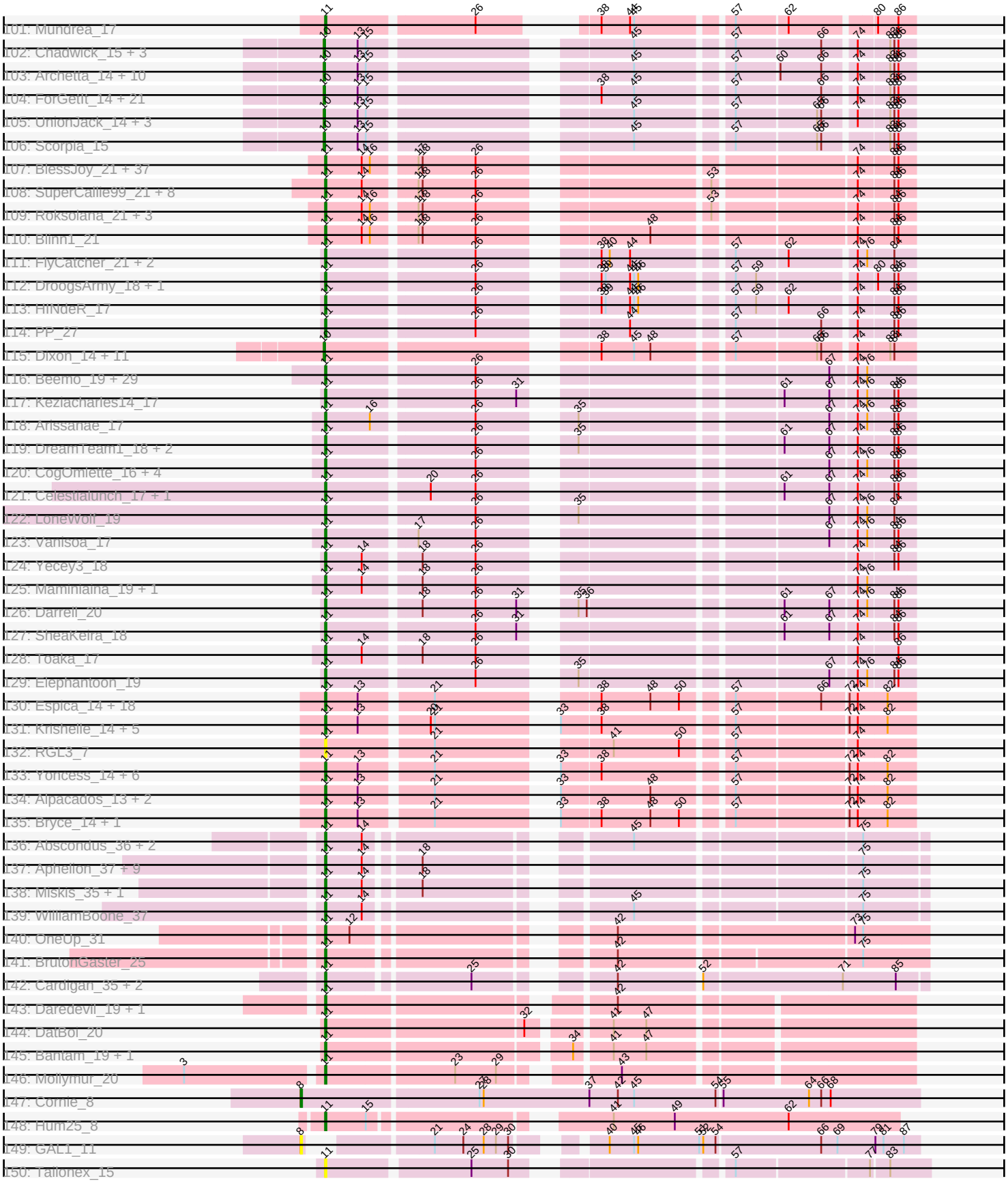
Pham 347037


1: A6_15 + 2
2: Kugel_17
3: Target_18 + 2
4: Kykar_14
5: BillKnuckles_17
6: Gwendoluna_19
7: Goose_17 + 4
8: Eaglepride_18
9: RhynO_18 + 3
10: PeaceMeal1_16 + 4
11: Rebeuca_18 + 1
12: Trike_15
13: DontArgue_16
14: Munch_18 + 27
15: Refuge_21
16: Pharaon_18
17: Zimmer_20
18: DarthPhader_19
19: Steamy_19
20: Phiel_13
21: Jeeves_17
22: SororFago_17
23: Gail_17 + 1
24: Luchador_19
25: Remus_20 + 21
26: Nedarya_19
27: Anon_18
28: LogiBear_20
29: Ellie_18
30: PainterBoy_19 + 2
31: 40AC_21
32: MyraDee_15
33: Kimona_14
34: QueenBeesly_18 + 7
35: Tomathan_21 + 9
36: IronMan_20 + 5
37: Anselm_18 + 3
38: Kalpine_21
39: AN3_18 + 3
40: EvilGenius_20 + 2
41: Superchunk_17 + 5
42: GaugeLDP_20
43: ANI8_21 + 2
44: Jerm_20 + 9
45: Trooper_18
46: Changeling_21
47: TipsytheTRex_17 + 6
48: CRB1_18
49: HarryHoudini_20 + 12
50: Malec_19 + 1

Pham 347037


51: NicoleTera_22
52: ForesterFrank_20
53: BobSwaget_21
54: AnnaL29_21 + 1
55: L5_19 + 1
56: Fameo_18 + 1
57: Colin_21
58: EZMoney23_22
59: SwimSquare_19
60: MissWhite_18
61: Miko_21 + 2
62: LionsBait_19 + 1
63: Baehexic_19
64: Prudy_21
65: TarsusIV_18
66: Iwokeuplikedis_19
67: HippoHollow_19
68: Pukovnik_20
69: Hellalump_20
70: JoshKayV_20
71: XianYue_18
72: Trixie_21
73: Herbertwm_15
74: RedRock_21
75: First_0018 + 1
76: LadyBird_18
77: BabyBack_20
78: Leogania_20 + 1
79: Benvolio_18 + 1
80: WeiHuaDA_23
81: Acolyte_18
82: NothingSpecial_20
83: VC3_21
84: ArcherNM_20
85: FatCactus_16
86: Anthony_17
87: Kinmap_17
88: Chargerpower_18
89: Norbert_17 + 14
90: Anubis_21 + 88
91: Chiqui_16 + 2
92: HelDan_17 + 28
93: Zetzy_18
94: Fred313_17
95: Abdiel_17 + 127
96: Noelle_17 + 4
97: BubbleTrouble_17 + 2
98: Huxley_17
99: Backyardigan_17 + 5
100: Perplexer_17 + 8

Pham 347037


I01: Mundrea_17
I02: Chadwick_15 + 3
I03: Archetta_14 + 10
I04: ForGetIt_14 + 21
I05: UnionJack_14 + 3
I06: Scorpia_15
I07: BlessJoy_21 + 37
I08: SuperCallie99_21 + 8
I09: Roksolana_21 + 3
I10: Blinn1_21
I11: FlyCatcher_21 + 2
I12: DroogsArmy_18 + 1
I13: HiNdeR_17
I14: PP_27
I15: Dixon_14 + 11
I16: Beemo_19 + 29
I17: KeziaCharles14_17
I18: Anissanae_17
I19: DreamTeam1_18 + 2
I20: CogOmlette_16 + 4
I21: Celestialunch_17 + 1
I22: LoneWolf_19
I23: Vanisoa_17
I24: Yecey3_18
I25: Maminiaina_19 + 1
I26: Darrell_20
I27: SheaKeira_18
I28: Toaka_17
I29: Elephantoon_19
I30: Espica_14 + 18
I31: Krishelle_14 + 5
I32: RGL3_7
I33: Yoncess_14 + 6
I34: Alpacados_13 + 2
I35: Bryce_14 + 1
I36: Abscondus_36 + 2
I37: Aphelion_37 + 9
I38: Miskis_35 + 1
I39: WilliamBoone_37
I40: OneUp_31
I41: BrutonGaster_25
I42: Cardigan_35 + 2
I43: Daredevil_19 + 1
I44: DatBoi_20
I45: Bantam_19 + 1
I46: Mollymur_20
I47: Corrie_8
I48: Hum25_8
I49: GAL1_11
I50: Tallonex_15

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 347037 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347037 has 752 members, 51 are drafts.

Phages represented in each track:
• Track 1 : A6_15, Ruotula_16, BK1_15
• Track 2 : Kugel_17
• Track 3 : Target_18, Whitspit_17, Bxb1_15
• Track 4 : Kykar_14
• Track 5 : BillKnuckles_17
• Track 6 : Gwendoluna_19
• Track 7 : Goose_17, OKCentral2016_17, Chupacabra_17, WalterMcMickey_17, Twister_17
• Track 8 : Eaglepride_18
• Track 9 : RhynO_18, Shapes_20, Rowdy_20, DustyMartin_20
• Track 10 : PeaceMeal1_16, Severus_16, Drake94_16, KittenMittens_16, Poompha_16
• Track 11 : Rebeuca_18, Kristoff_18
• Track 12 : Trike_15
• Track 13 : DontArgue_16
• Track 14 : Munch_18, Salz_18, Lucivia_18, MaCh_18, Insomnia_18, Jabith_18, Gilberta_18, TinyTimmy_18, Et2Brutus_17, Orange_18, Flaverint_18, Mulciber_18, Fibonacci_18, Bowtie_18, Wolpertinger_17, Kimba_18, Sham4_18, Petersenfast_18, Bachome_18, Ebony_18, Timothy_18, Joselito_18, Aneem_18, Bud_18, Saskia_18, Mabel_18, Hutc2_18, Snape_18
• Track 15 : Refuge_21
• Track 16 : Pharaoh_18
• Track 17 : Zimmer_20
• Track 18 : DarthPhader_19
• Track 19 : Steamy_19
• Track 20 : Phlei_13
• Track 21 : Jeeves_17
• Track 22 : SororFago_17
• Track 23 : Gail_17, Sunhee_17
• Track 24 : Luchador_19
• Track 25 : Remus_20, Ravana_20, Switzerland_20, Battleship_21, LastResort_20, JSwag_20, ShayRa_21, MinecraftSteve_21, Warrior24_20, Rosalind_20, KatherineG_20, DekHockey33_20, Oofda_20, Waits_20, Nebulosus_20, Looper_21, ReMo_20, Anaysia_20, Epsocamisio_20, Strosahl_20, Boohoo_20, Soups_20
• Track 26 : Nedarya_19
• Track 27 : Anon_18
• Track 28 : LogiBear_20

• Track 29 : Elle_18
• Track 30 : PainterBoy_19, Lucyedi_19, EagleEye_20
• Track 31 : 40AC_21
• Track 32 : MyraDee_15
• Track 33 : Kimona_14
• Track 34 : QueenBeesly_18, SemperFi_20, Georgie2_19, SweetiePie_18, Power_18, Crucio_18, SnapTap_18, FiringLine_18
• Track 35 : Tomathan_21, D29_19, Travvers_21, Duplo_21, Kerberos_21, DBQu4n_21, D32_21, StarStuff_21, Pomar16_21, Naji_21
• Track 36 : IronMan_20, Phaded_21, Landor_19, Tristan_19, Bactobuster_19, Jaan_21
• Track 37 : Anselm_18, DudeLittle_18, Retro23_18, Dalmatian_18
• Track 38 : Kalpine_21
• Track 39 : AN3_18, VA6_18, Deloris_19, BengiVuitton_19
• Track 40 : EvilGenius_20, KingCyrus_20, ChipMunk_20
• Track 41 : Superchunk_17, Caraxes_17, Che12_20, Odin_17, Ph8s_19, Adzzy_19
• Track 42 : GaugeLDP_20
• Track 43 : ANI8_21, AN9_21, C3_16
• Track 44 : Jerm_20, Dignity_20, AbbyPaige_20, Whabigail7_20, Smeagan_20, Bugsy_20, Leviathan_20, LilTurb_20, Agape74_20, Turbido_20
• Track 45 : Trooper_18
• Track 46 : Changeling_21
• Track 47 : TipsytheTRex_17, Bradman_17, Quokka_16, Serenity_17, Journey13_16, Jsquared_17, MajorMajor_17
• Track 48 : CRB1_18
• Track 49 : HarryHoudini_20, Updawg_20, NaSiaTalie_18, Flare16_18, Equemioh13_20, Gratitude_20, Sknot_18, MiculUcigas_18, WideWale_20, Terrific_20, Centaur_20, Drake55_20, Piro94_19
• Track 50 : Malec_19, Larenn_19
• Track 51 : NicoleTera_22
• Track 52 : ForesterFrank_20
• Track 53 : BobSwaget_21
• Track 54 : AnnaL29_21, Loser_21
• Track 55 : L5_19, Koduck_19
• Track 56 : Fameo_18, QueenB2_18
• Track 57 : Colin_21
• Track 58 : EZMoney23_22
• Track 59 : SwirlSquare_19
• Track 60 : MissWhite_18
• Track 61 : Miko_21, Rachaly_21, Lokk_21
• Track 62 : LionsBait_19, DeerParkTS_19
• Track 63 : Baehexic_19
• Track 64 : Prudy_21
• Track 65 : TarsusIV_18
• Track 66 : Iwokeuplikedis_19
• Track 67 : HippoHollow_19
• Track 68 : Pukovnik_20
• Track 69 : Heffalump_20
• Track 70 : JoshKayV_20
• Track 71 : XianYue_18
• Track 72 : Trixie_21
• Track 73 : Herbertwm_15
• Track 74 : RedRock_21

• Track 75 : First_0018, 20ES_18
• Track 76 : LadyBird_18
• Track 77 : BabyBack_20
• Track 78 : Leogania_20, BiancaTri92_20
• Track 79 : Benvolio_18, Echild_18
• Track 80 : WeiHuaDA_23
• Track 81 : Acolyte_18
• Track 82 : NothingSpecial_20
• Track 83 : VC3_21
• Track 84 : ArcherNM_20
• Track 85 : FatCactus_16
• Track 86 : Anthony_17
• Track 87 : Kinmap_17
• Track 88 : Chargerpower_18
• Track 89 : Norbert_17, Popcicle_18, Veracruz_17, Noella_18, Caviar_18, Todacoro_18, ResDef_18, Hookmount_18, EtoileNova_18, Texage_17, Margo_18, Panamaxus_18, Lambert1_18, Pocahontas_18, QuinnKiro_17
• Track 90 : Anubis_21, Grum1_19, JenCasNa_19, Misomonster_21, Louie6_19, Lowa_19, Malinsilva_21, Wooldri_21, Spike509_19, Mainiac_19, Hercules11_19, P28Green_19, Heliosoles_19, Bigflo_19, SoYo_19, Rummer_19, TinyPebbles_19, MadMarie_19, StepMih_19, Stagni_19, HaveUMetTed_20, Methuselah_19, KADY_20, Calvinny_19, PhishRPhriends_18, Marie_19, Bxz2_19, Aglet_19, Beauxregard13_19, Gwennie_19, Grub_19, Croquant_20, Ollie_19, PotatoSplit_20, Farber_19, ACFishhook_19, PGHhamlin_21, ClownCar_19, OlanP_19, Microwolf_19, AgronaGT15_19, Vix_19, AugsMagnumOpus_21, Dieselweasel_19, Gemma_19, MuchMore_21, BreSam8_19, Pawn_19, Colbster_19, DaHudson_19, LarryKay_19, Kalb97_20, Daishi_18, LugYA_21, MoneyMay_19, Phoebe_19, HashRod_20, Taurus_19, LBerry_19, Groupthink_20, JHC117_19, GingkoMaracino_19, SoilDragon_19, GtownJaz_19, Manu_20, Phranny_20, Grif_19, Tiffany_19, Sabinator_19, PurpleHaze_19, Penny1_19, EpicPhail_19, JeppNRM_20, Montavir_18, Pembroke_19, Cullens_19, Phoxy_19, MarQuardt_19, Watson_19, Fernando_19, Kalnoky_20, Sabia_19, Jobu08_19, Lilith_19, Marius_20, Soshari_21, Snickers_19, Reba_20, BuzzBuzz_18
• Track 91 : Chiqui_16, BabyJohn_16, MA5_17
• Track 92 : HelDan_17, Isca_17, Kachowdy_17, Goose1X_17, Giroux_18, Bugatti_18, MK4_17, Cat_15, Marchesa_17, BabyRay_17, Rockstar_17, Idleandcovert_17, Puppy_18, Phantastic_17, Scout_17, Roimos_17, Goose1D_17, Shep_17, B1_15, Pistachio_18, Heathen_17, JF2_17, Zarafa_17, Clammy_18, TNguyen7_17, BlueBird_18, JF4_17, SaturnRing_17, DropBear_17
• Track 93 : Zetzy_18
• Track 94 : Fred313_17
• Track 95 : Abdiel_17, Scamp_17, Baby16_17, Spino_17, Roosevelt_17, Eurydice_17, Kremtemulon_17, Romney_17, Albee_17, Taquarus_17, Pipcraft_17, Maverick_17, Cocoaberry_17, Houdini22_17, NorthStar_17, Eagle_16, Commander_17, Buckaroo_16, Rosa24_16, Mayonnaise_17, BellusTerra_17, Ulysses_16, SenorClean_17, Chaph_17, JetBlade_17, LHTSCC_18, KFPoly_17, Medusa_17, BangNhom_17, Obama12_18, Koan_17, Peaches_17, Funston_17, Wizard007_17, Citius_17, Deano_17, Ohfah_17, LeoAvram_17, Florean_17, MeeZee_17, Iceman_18, Nemo27_17, ICleared_17, Rocksand_17, Cerulean_18, Polymorphads_17, OKaNui_18, Gadost_17, Lunsford_18, NotAPhaseMom_17, Sultana_17, Phacado_17, Dhanush_17, LittleB_17, HamSlice_16, Bartimeaus_17, Blackmoor_17, Morrow_17, Bruiser_17, Happiness_17, Arturo_16, Eros_17, Burger_16, Clarenza_17, Iracema64_18, SteMason_17, Flux_17, YoSam321_17,

Edison31_17, Jaykayelowell_17, Phontbonne_17, Annyong_17, Junimo_16, Sparxx_17, TiroTheta9_17, Maxo_17, Pumbaa_17, PeterPeter_17, KekoraPapaka_16, Skadoosh_17, Kyee_17, JoongJeon_17, Melvin_17, Shaka_17, LochMonster_17, Ruin_17, Koreni_16, Millski_17, Eapen_17, Avle17_17, Bombshell_17, Phelipe_17, LittleGuy_17, Mazhar510_17, Sabertooth_17, Topanga_17, ChampagnePapi_18, Tinybot_16, Alberto7_18, Camperdownii_16, Thanksgivukkah_17, Cintron_17, LappelDuVide_17, Eris_17, Broseidon_17, Druantia_17, Lorenzo_17, Holli_17, Kratark_17, TygerBlood_17, RockieBear_17, Relief_17, CentreCat_17, Kampy_17, TinaFeyge_17, Kingmustik0402_17, Nyxis_17, Nebs_17, Northrop_17, Lemur_17, Wilbur_17, Phighter1804_17, Wander_17, DirtyDunning_17, SheldonCooper_18, TroyPia_17, Caelakin_17, Skipitt_17
• Track 96 : Noelle_17, Miramae_17, Stasia_18, AvatarAhPeg_18, Stink_18
• Track 97 : BubbleTrouble_17, Connomayer_17, Palestino_17
• Track 98 : Huxley_17
• Track 99 : Backyardigan_17, Badger_17, Xena_17, Datway_17, Wile_17, Achebe_17
• Track 100 : Perplexer_17, Shygu2_17, Bumblebee11_17, Cici_17, PetiteSangsue_17, Katalie136_17, Morpher26_17, AbbysRanger_17, Cindaradix_16
• Track 101 : Mundrea_17
• Track 102 : Chadwick_15, PetterN_15, Jabiru_14, Naca_14
• Track 103 : Archetta_14, SydNat_14, Jovo_14, Phlorence_14, AgentM_14, PickleBack_14, Lev2_14, Ghoulboy_14, Zolita_13, Aragog_14, Bluefalcon_13
• Track 104 : ForGetIt_14, Milcery_14, Cuco_14, Twigg_14, Tarynearal_13, Dublin_13, HuhtaEnerson15_14, Florence4_15, Midas2_14, Theia_13, Prinashe11_14, Florence1_14, Swirley_14, MarysWell_13, Coog_14, George_13, Discoknowium_14, Bonamassa_14, Conspiracy_14, Micasa_14, LittleCherry_14, Tiger_14
• Track 105 : UnionJack_14, Benedict_14, Airmid_14, ElTiger69_14
• Track 106 : Scorpia_15
• Track 107 : BlessJoy_21, Neeharika16_21, DelvinSonDorr_20, Wiks_21, Chartreuse_21, Cookiedough_21, Isiphiwo_21, JewelBug_21, CloudWang3_21, Pmask_21, Jordennis_21, Imbriano_21, SmellyB_21, Newrala_21, Dorothea_21, DaVinci_21, Yokurt_21, Candra_21, BABullseye_21, Kipper29_21, Priamo_21, WunderPhul_21, Temprado_21, EricB_21, Helmet_21, Kazan_21, VohminGhazi_21, Zulu_21, Lilbunny_21, Hoot_21, Polyphemus_21, BennyP_21, SuperAwesome_21, GreedyLawyer_21, Zaka_21, ToneTone_19, McFly_21, Garak_22
• Track 108 : SuperCallie99_21, Koko_21, Tucker_21, Hammer_21, Gladiator_21, Blue7_21, Gruunaga_21, Rifter_21, Jeffabunny_21
• Track 109 : Roksolana_21, Artemis2UCLA_21, Indra_21, Hexamo_21
• Track 110 : Blinn1_21
• Track 111 : FlyCatcher_21, Toro_20, Sheen_19
• Track 112 : DroogsArmy_18, Timshel_18
• Track 113 : HINdeR_17
• Track 114 : PP_27
• Track 115 : Dixon_14, Danforth_13, Caitlin_14, Smeadley_14, Expelliarmus_13, Phillis_14, NearlyHeadless_14, Saintus_14, Groundhog_13, Stephig9_14, Roary_14, Astro_14
• Track 116 : Beemo_19, Qobbit_19, Tubs_19, Phaeder_19, Jiawan_19, RyeScarlet_19, Priya_19, ExplosioNervosa_19, Aliter_19, Scherzo_19, Fayely_19, Phonnegut_19, Pioneer_19, EmyBug_19, Sachima_19, Eidsmoe_19, Lilleskat_19, Myxus_19, Hanray_19, EdogawaKiddo_19, Holex_19, Ayanochan_19, Onglai_18, HortumSL17_19, Conquerage_19, Alma_19, Catalina_19, Spouty_19, PackMan_19, Ugenie5_16

• Track 117 : Keziacharles14_17
• Track 118 : Arissanae_17
• Track 119 : DreamTeam1_18, Klodlith_18, Charm_18
• Track 120 : CogOmlette_16, Rahalelujah_17, Minispark_16, WorldCup_16, Bellris_17
• Track 121 : Celestialunch_17, MegTheThird_17
• Track 122 : LoneWolf_19
• Track 123 : Vanisoa_17
• Track 124 : Yecey3_18
• Track 125 : Maminiaina_19, BogosyJay_19
• Track 126 : Darrell_20
• Track 127 : SheaKeira_18
• Track 128 : Toaka_17
• Track 129 : Elephantoon_19
• Track 130 : Espica_14, UhSalsa_14, Natosaleda_14, Gollum_14, RER2_7, Naiad_14, Belenaria_14, Phrankenstein_14, CosmicSans_14, TWAMP_14, Swann_14, Alatin_14, StCroix_14, Bradshaw_14, Lillie_14, Erik_14, RexFury_14, Nancinator_14, Rhodalysa_14
• Track 131 : Krishelle_14, Hiro_14, Harlequin_14, AppleCloud_12, PhailMary_13, Jester_14
• Track 132 : RGL3_7
• Track 133 : Yoncess_14, Dinger_14, AngryOrchard_13, Takoda_14, BobbyDazzler_14, Partridge_14, Shuman_14
• Track 134 : Alpacados_13, Bonanza_14, Yogi_14
• Track 135 : Bryce_14, Rasputin_14
• Track 136 : Abscondus_36, Culver_37, Dusty_36
• Track 137 : Aphelion_37, Geeche_36, Bachita_39, Lozinak_37, Smoothie_38, PhinkBoden_37, Engineer_38, Norvs_38, Toniann_37, Cucurbita_39
• Track 138 : Miskis_35, ClubL_37
• Track 139 : WilliamBoone_37
• Track 140 : OneUp_31
• Track 141 : BrutonGaster_25
• Track 142 : Cardigan_35, Yvonnetastic_34, JonJames_36
• Track 143 : Daredevil_19, Towmatter_18
• Track 144 : DatBoi_20
• Track 145 : Bantam_19, SpeedDemon_200
• Track 146 : Mollymur_20
• Track 147 : Cornie_8
• Track 148 : Hum25_8
• Track 149 : GAL1_11
• Track 150 : Tailonex_15

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 11, it was called in 642 of the 701 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 20ES_18, 40AC_21, A6_15, ACFishhook_19, AN3_18, AN9_21, ANI8_21, AbbyPaige_20, AbbysRanger_17, Abdiel_17, Abscondus_36, Achebe_17,

Acolyte_18, Adzzy_19, Agape74_20, Aglet_19, AgronaGT15_19, Alatin_14, Albee_17, Alberto7_18, Aliter_19, Alma_19, Alpacados_13, Anaysia_20, Aneem_18, AngryOrchard_13, AnnaL29_21, Annyong_17, Anon_18, Anselm_18, Anthony_17, Anubis_21, Aphelion_37, AppleCloud_12, ArcherNM_20, Arissanae_17, Artemis2UCLA_21, Arturo_16, AugsMagnumOpus_21, AvatarAhPeg_18, Avle17_17, Ayanochan_19, B1_15, BABullseye_21, BK1_15, Baby16_17, BabyBack_20, BabyJohn_16, BabyRay_17, Bachita_39, Bachome_18, Backyardigan_17, Bactobuster_19, Badger_17, Baehexic_19, BangNhom_17, Bantam_19, Bartimeaus_17, Battleship_21, Beauxregard13_19, Beemo_19, Belenaria_14, Bellris_17, BellusTerra_17, BengiVuitton_19, BennyP_21, Benvolio_18, BiancaTri92_20, Bigflo_19, Blackmoor_17, BlessJoy_21, Blinn1_21, Blue7_21, BlueBird_18, BobSwaget_21, BobbyDazzler_14, BogosyJay_19, Bombshell_17, Bonanza_14, Boohoo_20, Bowtie_18, Bradman_17, Bradshaw_14, BreSam8_19, Broseidon_17, Bruiser_17, BrutonGaster_25, Bryce_14, BubbleTrouble_17, Buckaroo_16, Bud_18, Bugatti_18, Bugsy_20, Bumblebee11_17, Burger_16, BuzzBuzz_18, Bxz2_19, C3_16, CRB1_18, Caelakin_17, Calvinny_19, Camperdownii_16, Candra_21, Caraxes_17, Cardigan_35, Cat_15, Catalina_19, Caviar_18, Celestialunch_17, Centaur_20, CentreCat_17, Cerulean_18, ChampagnePapi_18, Changeling_21, Chaph_17, Chargerpower_18, Charm_18, Chartreuse_21, Che12_20, ChipMunk_20, Chiqui_16, Chupacabra_17, Cici_17, Cindaradix_16, Cintron_17, Citius_17, Clammy_18, Clarenza_17, CloudWang3_21, ClownCar_19, ClubL_37, Cocoaberry_17, CogOmlette_16, Colbster_19, Colin_21, Commander_17, Connomayer_17, Conquerage_19, Cookiedough_21, CosmicSans_14, Croquant_20, Crucio_18, Cucurbita_39, Cullens_19, Culver_37, D29_19, D32_21, DBQu4n_21, DaHudson_19, DaVinci_21, Daishi_18, Dalmatian_18, Daredevil_19, Darrell_20, DarthPhader_19, DatBoi_20, Datway_17, Deano_17, DeerParkTS_19, DekHockey33_20, Deloris_19, DelvinSonDorr_20, Dhanush_17, Dieselweasel_19, Dignity_20, Dinger_14, DirtyDunning_17, DontArgue_16, Dorothea_21, Drake55_20, Drake94_16, DreamTeam1_18, DroogsArmy_18, DropBear_17, Druantia_17, DudeLittle_18, Duplo_21, DustyMartin_20, Dusty_36, EZMoney23_22, EagleEye_20, Eagle_16, Eaglepride_18, Eapen_17, Ebony_18, Echild_18, Edison31_17, EdogawaKiddo_19, Eidsmoe_19, Elephantoon_19, Elle_18, EmyBug_19, Engineer_38, EpicPhail_19, Epsocamisio_20, Equemioh13_20, EricB_21, Erik_14, Eris_17, Eros_17, Espica_14, Et2Brutus_17, EtoileNova_18, Eurydice_17, EvilGenius_20, ExplosioNervosa_19, Fameo_18, Farber_19, FatCactus_16, Fayely_19, Fernando_19, Fibonacci_18, FiringLine_18, First_0018, Flare16_18, Flaverint_18, Florean_17, Flux_17, FlyCatcher_21, ForesterFrank_20, Fred313_17, Funston_17, Gadost_17, Gail_17, Garak_22, GaugeLDP_20, Geeche_36, Gemma_19, Georgie2_19, Gilberta_18, GingkoMaracino_19, Giroux_18, Gladiator_21, Gollum_14, Goose1D_17, Goose1X_17, Goose_17, Gratitude_20, GreedyLawyer_21, Grif_19, Groupthink_20, Grub_19, Grum1_19, Gruunaga_21, GtownJaz_19, Gwendoluna_19, Gwennie_19, HINdeR_17, HamSlice_16, Hammer_21, Hanray_19, Happiness_17, Harlequin_14, HarryHoudini_20, HashRod_20, HaveUMetTed_20, Heathen_17, Heffalump_20, HelDan_17, Heliosoles_19, Helmet_21, Herbertwm_15, Hercules11_19, Hexamo_21, HippoHollow_19, Hiro_14, Holex_19, Holli_17, Hookmount_18, Hoot_21, HortumSL17_19, Houdini22_17, Hum25_8, Hutc2_18, Huxley_17, ICleared_17, Iceman_18, Idleandcovert_17, Imbriano_21, Indra_21, Insomnia_18, Iracema64_18, IronMan_20, Isca_17, Isiphiwo_21, Iwokeuplikedis_19, JF2_17, JF4_17, JHC117_19, JSwag_20, Jaan_21, Jabith_18, Jaykayelowell_17, Jeeves_17, Jeffabunny_21, JenCasNa_19, JeppNRM_20, Jerm_20, Jester_14, JetBlade_17, JewelBug_21, Jiawan_19, Jobu08_19, JonJames_36, JoongJeon_17, Jordennis_21, Joselito_18, JoshKayV_20, Journey13_16, Jsquared_17, Junimo_16, KADY_20, KFPoly_17,

Kachowdy_17, Kalb97_20, Kalnoky_20, Kalpine_21, Kampy_17, Katalie136_17, KatherineG_20, Kazan_21, KekoraPapaka_16, Kerberos_21, Keziacharles14_17, Kimba_18, Kimona_14, KingCyrus_20, Kingmustik0402_17, Kinmap_17, Kipper29_21, KittenMittens_16, Klodlith_18, Koan_17, Koduck_19, Koko_21, Koreni_16, Kratark_17, Kremtemulon_17, Krishelle_14, Kristoff_18, Kyee_17, L5_19, LBerry_19, LHTSCC_18, LadyBird_18, Lambert1_18, Landor_19, LappelDuVide_17, Larenn_19, LarryKay_19, LastResort_20, Lemur_17, LeoAvram_17, Leogania_20, Leviathan_20, LilTurb_20, Lilbunny_21, Lilith_19, Lilleskat_19, Lillie_14, LionsBait_19, LittleB_17, LittleGuy_17, LochMonster_17, LogiBear_20, Lokk_21, LoneWolf_19, Looper_21, Lorenzo_17, Loser_21, Louie6_19, Lowa_19, Lozinak_37, Luchador_19, Lucivia_18, Lucyedi_19, LugYA_21, Lunsford_18, MA5_17, MK4_17, MaCh_18, Mabel_18, MadMarie_19, Mainiac_19, MajorMajor_17, Malec_19, Malinsilva_21, Maminiaina_19, Manu_20, MarQuardt_19, Marchesa_17, Margo_18, Marie_19, Marius_20, Maverick_17, Maxo_17, Mayonnaise_17, Mazhar510_17, McFly_21, Medusa_17, MeeZee_17, MegTheThird_17, Melvin_17, Methuselah_19, Microwolf_19, MiculUcigas_18, Miko_21, Millski_17, MinecraftSteve_21, Minispark_16, Miramae_17, Miskis_35, Misomonster_21, MissWhite_18, Mollymur_20, MoneyMay_19, Montavir_18, Morpher26_17, Morrow_17, MuchMore_21, Mulciber_18, Munch_18, Mundrea_17, MyraDee_15, Myxus_19, NaSiaTalie_18, Naiad_14, Naji_21, Nancinator_14, Natosaleda_14, Nebs_17, Nebulosus_20, Nedarya_19, Neeharika16_21, Nemo27_17, Newrala_21, NicoleTera_22, Noella_18, Noelle_17, Norbert_17, NorthStar_17, Northrop_17, Norvs_38, NotAPhaseMom_17, NothingSpecial_20, Nyxis_17, OKCentral2016_17, OKaNui_18, Obama12_18, Odin_17, Ohfah_17, OlanP_19, Ollie_19, OneUp_31, Onglai_18, Oofda_20, Orange_18, P28Green_19, PGHhamlin_21, PP_27, PackMan_19, PainterBoy_19, Palestino_17, Panamaxus_18, Partridge_14, Pawn_19, PeaceMeal1_16, Peaches_17, Pembroke_19, Penny1_19, Perplexer_17, PeterPeter_17, Petersenfast_18, PetiteSangsue_17, Ph8s_19, Phacado_17, Phaded_21, Phaeder_19, PhailMary_13, Phantastic_17, Pharaoh_18, Phelipe_17, Phighter1804_17, PhinkBoden_37, PhishRPhriends_18, Phlei_13, Phoebe_19, Phonnegut_19, Phontbonne_17, Phoxy_19, Phrankenstein_14, Phranny_20, Pioneer_19, Pipcraft_17, Piro94_19, Pistachio_18, Pmask_21, Pocahontas_18, Polymorphads_17, Polyphemus_21, Pomar16_21, Poompha_16, Popcicle_18, PotatoSplit_20, Power_18, Priamo_21, Priya_19, Prudy_21, Pukovnik_20, Pumbaa_17, Puppy_18, PurpleHaze_19, Qobbit_19, QueenB2_18, QueenBeesly_18, QuinnKiro_17, Quokka_16, RER2_7, RGL3_7, Rachaly_21, Rahalelujah_17, Rasputin_14, Ravana_20, ReMo_20, Reba_20, Rebeuca_18, RedRock_21, Refuge_21, Relief_17, Remus_20, ResDef_18, Retro23_18, RexFury_14, Rhodalysa_14, RhynO_18, Rifter_21, RockieBear_17, Rocksand_17, Rockstar_17, Roimos_17, Roksolana_21, Romney_17, Roosevelt_17, Rosa24_16, Rosalind_20, Rowdy_20, Ruin_17, Rummer_19, Ruotula_16, RyeScarlet_19, Sabertooth_17, Sabia_19, Sabinator_19, Sachima_19, Salz_18, Saskia_18, SaturnRing_17, Scamp_17, Scherzo_19, Scout_17, SemperFi_20, SenorClean_17, Serenity_17, Severus_16, Shaka_17, Sham4_18, Shapes_20, ShayRa_21, SheaKeira_18, Sheen_19, SheldonCooper_18, Shep_17, Shuman_14, Shygu2_17, Skadoosh_17, Skipitt_17, Sknot_18, Smeagan_20, SmellyB_21, Smoothie_38, SnapTap_18, Snape_18, Snickers_19, SoYo_19, SoilDragon_19, Soshari_21, Soups_20, Sparxx_17, SpeedDemon_200, Spike509_19, Spino_17, Spouty_19, StCroix_14, Stagni_19, StarStuff_21, Stasia_18, SteMason_17, Steamy_19, StepMih_19, Stink_18, Strosahl_20, Sultana_17, Sunhee_17, SuperAwesome_21, SuperCallie99_21, Superchunk_17, Swann_14, SweetiePie_18, SwirlSquare_19, Switzerland_20, TNguyen7_17, TWAMP_14, Tailonex_15, Takoda_14, Taquarus_17, TarsusIV_18, Taurus_19, Temprado_21, Terrific_20, Texage_17,

Thanksgivukkah_17, Tiffany_19, Timothy_18, Timshel_18, TinaFeyge_17, TinyPebbles_19, TinyTimmy_18, Tinybot_16, TipsytheTRex_17, TiroTheta9_17, Toaka_17, Todacoro_18, Tomathan_21, ToneTone_19, Toniann_37, Topanga_17, Toro_20, Towmatter_18, Travvers_21, Trike_15, Tristan_19, Trixie_21, Trooper_18, TroyPia_17, Tubs_19, Tucker_21, Turbido_20, Twister_17, TygerBlood_17, Ugenie5_16, UhSalsa_14, Ulysses_16, Updawg_20, VA6_18, VC3_21, Vanisoa_17, Veracruz_17, Vix_19, VohminGhazi_21, Waits_20, WalterMcMickey_17, Wander_17, Warrior24_20, Watson_19, WeiHuaDA_23, Whabigail7_20, WideWale_20, Wiks_21, Wilbur_17, Wile_17, WilliamBoone_37, Wizard007_17, Wolpertinger_17, Wooldri_21, WorldCup_16, WunderPhul_21, Xena_17, XianYue_18, Yecey3_18, YoSam321_17, Yogi_14, Yokurt_21, Yoncess_14, Yvonnetastic_34, Zaka_21, Zarafa_17, Zetzy_18, Zimmer_20, Zulu_21,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:
• AgentM_14, Airmid_14, Aragog_14, Archetta_14, Astro_14, Benedict_14, BillKnuckles_17, Bluefalcon_13, Bonamassa_14, Bxb1_15, Caitlin_14, Chadwick_15, Conspiracy_14, Coog_14, Cornie_8, Cuco_14, Danforth_13, Discoknowium_14, Dixon_14, Dublin_13, ElTiger69_14, Expelliarmus_13, Florence1_14, Florence4_15, ForGetIt_14, GAL1_11, George_13, Ghoulboy_14, Groundhog_13, HuhtaEnerson15_14, Jabiru_14, Jovo_14, Kugel_17, Kykar_14, Lev2_14, LittleCherry_14, MarysWell_13, Micasa_14, Midas2_14, Milcery_14, Naca_14, NearlyHeadless_14, PetterN_15, Phillis_14, Phlorence_14, PickleBack_14, Prinashe11_14, Roary_14, Saintus_14, Scorpia_15, Smeadley_14, SororFago_17, Stephig9_14, Swirley_14, SydNat_14, Target_18, Tarynearal_13, Theia_13, Tiger_14, Twigg_14, UnionJack_14, Whitspit_17, Zolita_13,

Summary by start number:

Start 5:
• Found in 6 of 752 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 701
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Kugel_17 (A1),

Start 8:
• Found in 2 of 752 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 701
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cornie_8 (F5), GAL1_11 (singleton),

Start 9:
• Found in 7 of 752 (0.9%) of genes in pham
• Manual Annotations of this start: 5 of 701
• Called 85.7% of time when present
• Phage (with cluster) where this start called: BillKnuckles_17 (A1), Bxb1_15 (A1), Kykar_14 (A1), SororFago_17 (A14), Target_18 (A1), Whitspit_17 (A1),

Start 10:
• Found in 54 of 752 (7.2%) of genes in pham
• Manual Annotations of this start: 52 of 701

• Called 100.0% of time when present
• Phage (with cluster) where this start called: AgentM_14 (A5), Airmid_14 (A5), Aragog_14 (A5), Archetta_14 (A5), Astro_14 (A8), Benedict_14 (A5), Bluefalcon_13 (A5), Bonamassa_14 (A5), Caitlin_14 (A8), Chadwick_15 (A5), Conspiracy_14 (A5), Coog_14 (A5), Cuco_14 (A5), Danforth_13 (A8), Discoknowium_14 (A5), Dixon_14 (A8), Dublin_13 (A5), ElTiger69_14 (A5), Expelliarmus_13 (A8), Florence1_14 (A5), Florence4_15 (A5), ForGetIt_14 (A5), George_13 (A5), Ghoulboy_14 (A5), Groundhog_13 (A8), HuhtaEnerson15_14 (A5), Jabiru_14 (A5), Jovo_14 (A5), Lev2_14 (A5), LittleCherry_14 (A5), MarysWell_13 (A5), Micasa_14 (A5), Midas2_14 (A5), Milcery_14 (A5), Naca_14 (A5), NearlyHeadless_14 (A8), PetterN_15 (A5), Phillis_14 (A8), Phlorence_14 (A5), PickleBack_14 (A5), Prinashe11_14 (A5), Roary_14 (A8), Saintus_14 (A8), Scorpia_15 (A5), Smeadley_14 (A8), Stephig9_14 (A8), Swirley_14 (A5), SydNat_14 (A5), Tarynearal_13 (A5), Theia_13 (A5), Tiger_14 (A5), Twigg_14 (A5), UnionJack_14 (A5), Zolita_13 (A5),

Start 11:
• Found in 689 of 752 (91.6%) of genes in pham
• Manual Annotations of this start: 642 of 701
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 20ES_18 (A2), 40AC_21 (A17), A6_15 (A1), ACFishhook_19 (A3), AN3_18 (A2), AN9_21 (A2), ANI8_21 (A2), AbbyPaige_20 (A2), AbbysRanger_17 (A4), Abdiel_17 (A4), Abscondus_36 (CQ1), Achebe_17 (A4), Acolyte_18 (A2), Adzzy_19 (A2), Agape74_20 (A2), Aglet_19 (A3), AgronaGT15_19 (A3), Alatin_14 (CA), Albee_17 (A4), Alberto7_18 (A4), Aliter_19 (A9), Alma_19 (A9), Alpacados_13 (CA), Anaysia_20 (A15), Aneem_18 (A11), AngryOrchard_13 (CA), AnnaL29_21 (A2), Annyong_17 (A4), Anon_18 (A15), Anselm_18 (A2), Anthony_17 (A20), Anubis_21 (A3), Aphelion_37 (CQ1), AppleCloud_12 (CA), ArcherNM_20 (A2), Arissanae_17 (A9), Artemis2UCLA_21 (A6), Arturo_16 (A4), AugsMagnumOpus_21 (A3), AvatarAhPeg_18 (A4), Avle17_17 (A4), Ayanochan_19 (A9), B1_15 (A3), BABullseye_21 (A6), BK1_15 (A1), Baby16_17 (A4), BabyBack_20 (A2), BabyJohn_16 (A3), BabyRay_17 (A3), Bachita_39 (CQ1), Bachome_18 (A11), Backyardigan_17 (A4), Bactobuster_19 (A2), Badger_17 (A4), Baehexic_19 (A2), BangNhom_17 (A4), Bantam_19 (DL), Bartimeaus_17 (A4), Battleship_21 (A15), Beauxregard13_19 (A3), Beemo_19 (A9), Belenaria_14 (CA), Bellris_17 (A9), BellusTerra_17 (A4), BengiVuitton_19 (A2), BennyP_21 (A6), Benvolio_18 (A2), BiancaTri92_20 (A2), Bigflo_19 (A3), Blackmoor_17 (A4), BlessJoy_21 (A6), Blinn1_21 (A6), Blue7_21 (A6), BlueBird_18 (A3), BobSwaget_21 (A2), BobbyDazzler_14 (CA), BogosyJay_19 (A9), Bombshell_17 (A4), Bonanza_14 (CA), Boohoo_20 (A15), Bowtie_18 (A11), Bradman_17 (A2), Bradshaw_14 (CA), BreSam8_19 (A3), Broseidon_17 (A4), Bruiser_17 (A4), BrutonGaster_25 (CQ2), Bryce_14 (CA), BubbleTrouble_17 (A4), Buckaroo_16 (A4), Bud_18 (A11), Bugatti_18 (A3), Bugsy_20 (A2), Bumblebee11_17 (A4), Burger_16 (A4), BuzzBuzz_18 (A3), Bxz2_19 (A3), C3_16 (A2), CRB1_18 (A2), Caelakin_17 (A4), Calvinny_19 (A3), Camperdownii_16 (A4), Candra_21 (A6), Caraxes_17 (A2), Cardigan_35 (DD), Cat_15 (A3), Catalina_19 (A9), Caviar_18 (A3), Celestialunch_17 (A9), Centaur_20 (A2), CentreCat_17 (A4), Cerulean_18 (A4), ChampagnePapi_18 (A4), Changeling_21 (A2), Chaph_17 (A4), Chargerpower_18 (A22), Charm_18 (A9), Chartreuse_21 (A6), Che12_20 (A2), ChipMunk_20 (A2), Chiqui_16 (A3), Chupacabra_17 (A10), Cici_17 (A4), Cindaradix_16 (A4), Cintron_17 (A4), Citius_17 (A4), Clammy_18 (A3), Clarenza_17 (A4), CloudWang3_21 (A6), ClownCar_19 (A3), ClubL_37 (CQ1), Cocoaberry_17 (A4), CogOmlette_16 (A9), Colbster_19 (A3), Colin_21 (A2), Commander_17 (A4), Connomayer_17 (A4), Conquerage_19 (A9), Cookiedough_21 (A6), CosmicSans_14 (CA), Croquant_20 (A3), Crucio_18 (A2),

Cucurbita_39 (CQ1), Cullens_19 (A3), Culver_37 (CQ1), D29_19 (A2), D32_21 (A2), DBQu4n_21 (A2), DaHudson_19 (A3), DaVinci_21 (A6), Daishi_18 (A3), Dalmatian_18 (A2), Daredevil_19 (DL), Darrell_20 (A9), DarthPhader_19 (A12), DatBoi_20 (DL), Datway_17 (A4), Deano_17 (A4), DeerParkTS_19 (A2), DekHockey33_20 (A15), Deloris_19 (A2), DelvinSonDorr_20 (A6), Dhanush_17 (A4), Dieselweasel_19 (A3), Dignity_20 (A2), Dinger_14 (CA), DirtyDunning_17 (A4), DontArgue_16 (A10), Dorothea_21 (A6), Drake55_20 (A2), Drake94_16 (A10), DreamTeam1_18 (A9), DroogsArmy_18 (A7), DropBear_17 (A3), Druantia_17 (A4), DudeLittle_18 (A2), Duplo_21 (A2), DustyMartin_20 (A10), Dusty_36 (CQ1), EZMoney23_22 (A2), EagleEye_20 (A16), Eagle_16 (A4), Eaglepride_18 (A10), Eapen_17 (A4), Ebony_18 (A11), Echild_18 (A2), Edison31_17 (A10), EdogawaKiddo_19 (A9), Eidsmoe_19 (A9), Elephantoon_19 (A9), Elle_18 (A15), EmyBug_19 (A9), Engineer_38 (CQ1), EpicPhail_19 (A3), Epsocamisio_20 (A15), Equemioh13_20 (A2), EricB_21 (A6), Erik_14 (CA), Eris_17 (A4), Eros_17 (A4), Espica_14 (CA), Et2Brutus_17 (A11), EtoileNova_18 (A3), Eurydice_17 (A4), EvilGenius_20 (A2), ExplosioNervosa_19 (A9), Fameo_18 (A2), Farber_19 (A3), FatCactus_16 (A20), Fayely_19 (A9), Fernando_19 (A3), Fibonacci_18 (A11), FiringLine_18 (A2), First_0018 (A2), Flare16_18 (A2), Flaverint_18 (A11), Florean_17 (A4), Flux_17 (A4), FlyCatcher_21 (A7), ForesterFrank_20 (A2), Fred313_17 (A3), Funston_17 (A4), Gadost_17 (A4), Gail_17 (A14), Garak_22 (A6), GaugeLDP_20 (A2), Geeche_36 (CQ1), Gemma_19 (A3), Georgie2_19 (A2), Gilberta_18 (A11), GingkoMaracino_19 (A3), Giroux_18 (A3), Gladiator_21 (A6), Gollum_14 (CA), Goose1D_17 (A3), Goose1X_17 (A3), Goose_17 (A10), Gratitude_20 (A2), GreedyLawyer_21 (A6), Grif_19 (A3), Groupthink_20 (A3), Grub_19 (A3), Grum1_19 (A3), Gruunaga_21 (A6), GtownJaz_19 (A3), Gwendoluna_19 (A1), Gwennie_19 (A3), HINdeR_17 (A7), HamSlice_16 (A4), Hammer_21 (A6), Hanray_19 (A9), Happiness_17 (A4), Harlequin_14 (CA), HarryHoudini_20 (A2), HashRod_20 (A3), HaveUMetTed_20 (A3), Heathen_17 (A3), Heffalump_20 (A2), HelDan_17 (A3), Heliosoles_19 (A3), Helmet_21 (A6), Herbertwm_15 (A2), Hercules11_19 (A3), Hexamo_21 (A6), HippoHollow_19 (A2), Hiro_14 (CA), Holex_19 (A9), Holli_17 (A4), Hookmount_18 (A3), Hoot_21 (A6), HortumSL17_19 (A9), Houdini22_17 (A4), Hum25_8 (FQ1), Hutc2_18 (A11), Huxley_17 (A4), ICleared_17 (A4), Iceman_18 (A4), Idleandcovert_17 (A3), Imbriano_21 (A6), Indra_21 (A6), Insomnia_18 (A11), Iracema64_18 (A4), IronMan_20 (A2), Isca_17 (A3), Isiphiwo_21 (A6), Iwokeuplikedis_19 (A2), JF2_17 (A3), JF4_17 (A3), JHC117_19 (A3), JSwag_20 (A15), Jaan_21 (A2), Jabith_18 (A11), Jaykayelowell_17 (A4), Jeeves_17 (A14), Jeffabunny_21 (A6), JenCasNa_19 (A3), JeppNRM_20 (A3), Jerm_20 (A2), Jester_14 (CA), JetBlade_17 (A4), JewelBug_21 (A6), Jiawan_19 (A9), Jobu08_19 (A3), JonJames_36 (DD), JoongJeon_17 (A4), Jordennis_21 (A6), Joselito_18 (A11), JoshKayV_20 (A2), Journey13_16 (A2), Jsquared_17 (A2), Junimo_16 (A4), KADY_20 (A3), KFPoly_17 (A4), Kachowdy_17 (A3), Kalb97_20 (A3), Kalnoky_20 (A3), Kalpine_21 (A2), Kampy_17 (A4), Katalie136_17 (A4), KatherineG_20 (A15), Kazan_21 (A6), KekoraPapaka_16 (A4), Kerberos_21 (A2), Keziacharles14_17 (A9), Kimba_18 (A11), Kimona_14 (A19), KingCyrus_20 (A2), Kingmustik0402_17 (A4), Kinmap_17 (A21), Kipper29_21 (A6), KittenMittens_16 (A10), Klodlith_18 (A9), Koan_17 (A4), Koduck_19 (A2), Koko_21 (A6), Koreni_16 (A4), Kratark_17 (A4), Kremtemulon_17 (A4), Krishelle_14 (CA), Kristoff_18 (A10), Kyee_17 (A4), L5_19 (A2), LBerry_19 (A3), LHTSCC_18 (A4), LadyBird_18 (A2), Lambert1_18 (A3), Landor_19 (A2), LappelDuVide_17 (A4), Larenn_19 (A2), LarryKay_19 (A3), LastResort_20 (A15), Lemur_17 (A4), LeoAvram_17 (A4), Leogania_20 (A2), Leviathan_20 (A2), LilTurb_20 (A2), Lilbunny_21 (A6), Lilith_19 (A3), Lilleskat_19 (A9), Lillie_14 (CA), LionsBait_19 (A2), LittleB_17 (A4), LittleGuy_17 (A4), LochMonster_17 (A4), LogiBear_20 (A15), Lokk_21 (A2), LoneWolf_19 (A9),

Looper_21 (A15), Lorenzo_17 (A4), Loser_21 (A2), Louie6_19 (A3), Lowa_19 (A3), Lozinak_37 (CQ1), Luchador_19 (A14), Lucivia_18 (A11), Lucyedi_19 (A16), LugYA_21 (A3), Lunsford_18 (A4), MA5_17 (A3), MK4_17 (A3), MaCh_18 (A11), Mabel_18 (A11), MadMarie_19 (A3), Mainiac_19 (A3), MajorMajor_17 (A2), Malec_19 (A2), Malinsilva_21 (A3), Maminiaina_19 (A9), Manu_20 (A3), MarQuardt_19 (A3), Marchesa_17 (A3), Margo_18 (A3), Marie_19 (A3), Marius_20 (A3), Maverick_17 (A4), Maxo_17 (A4), Mayonnaise_17 (A4), Mazhar510_17 (A4), McFly_21 (A6), Medusa_17 (A4), MeeZee_17 (A4), MegTheThird_17 (A9), Melvin_17 (A4), Methuselah_19 (A3), Microwolf_19 (A3), MiculUcigas_18 (A2), Miko_21 (A2), Millski_17 (A4), MinecraftSteve_21 (A15), Minispark_16 (A9), Miramae_17 (A4), Miskis_35 (CQ1), Misomonster_21 (A3), MissWhite_18 (A2), Mollymur_20 (DL), MoneyMay_19 (A3), Montavir_18 (A3), Morpher26_17 (A4), Morrow_17 (A4), MuchMore_21 (A3), Mulciber_18 (A11), Munch_18 (A11), Mundrea_17 (A4), MyraDee_15 (A18), Myxus_19 (A9), NaSiaTalie_18 (A2), Naiad_14 (CA), Naji_21 (A2), Nancinator_14 (CA), Natosaleda_14 (CA), Nebs_17 (A4), Nebulosus_20 (A15), Nedarya_19 (A15), Neeharika16_21 (A6), Nemo27_17 (A4), Newrala_21 (A6), NicoleTera_22 (A2), Noella_18 (A3), Noelle_17 (A4), Norbert_17 (A3), NorthStar_17 (A4), Northrop_17 (A4), Norvs_38 (CQ1), NotAPhaseMom_17 (A4), NothingSpecial_20 (A2), Nyxis_17 (A4), OKCentral2016_17 (A10), OKaNui_18 (A4), Obama12_18 (A4), Odin_17 (A2), Ohfah_17 (A4), OlanP_19 (A3), Ollie_19 (A3), OneUp_31 (CQ2), Onglai_18 (A9), Oofda_20 (A15), Orange_18 (A11), P28Green_19 (A3), PGHhamlin_21 (A3), PP_27 (A7), PackMan_19 (A9), PainterBoy_19 (A16), Palestino_17 (A4), Panamaxus_18 (A3), Partridge_14 (CA), Pawn_19 (A3), PeaceMeal1_16 (A10), Peaches_17 (A4), Pembroke_19 (A3), Penny1_19 (A3), Perplexer_17 (A4), PeterPeter_17 (A4), Petersenfast_18 (A11), PetiteSangsue_17 (A4), Ph8s_19 (A2), Phacado_17 (A4), Phaded_21 (A2), Phaeder_19 (A9), PhailMary_13 (CA), Phantastic_17 (A3), Pharaoh_18 (A12), Phelipe_17 (A4), Phighter1804_17 (A4), PhinkBoden_37 (CQ1), PhishRPhriends_18 (A3), Phlei_13 (A13), Phoebe_19 (A3), Phonnegut_19 (A9), Phontbonne_17 (A4), Phoxy_19 (A3), Phrankenstein_14 (CA), Phranny_20 (A3), Pioneer_19 (A9), Pipcraft_17 (A4), Piro94_19 (A2), Pistachio_18 (A3), Pmask_21 (A6), Pocahontas_18 (A3), Polymorphads_17 (A4), Polyphemus_21 (A6), Pomar16_21 (A2), Poompha_16 (A10), Popcicle_18 (A3), PotatoSplit_20 (A3), Power_18 (A2), Priamo_21 (A6), Priya_19 (A9), Prudy_21 (A2), Pukovnik_20 (A2), Pumbaa_17 (A4), Puppy_18 (A3), PurpleHaze_19 (A3), Qobbit_19 (A9), QueenB2_18 (A2), QueenBeesly_18 (A2), QuinnKiro_17 (A3), Quokka_16 (A2), RER2_7 (CA), RGL3_7 (CA), Rachaly_21 (A2), Rahalelujah_17 (A9), Rasputin_14 (CA), Ravana_20 (A15), ReMo_20 (A15), Reba_20 (A3), Rebeuca_18 (A10), RedRock_21 (A2), Refuge_21 (A12), Relief_17 (A4), Remus_20 (A15), ResDef_18 (A3), Retro23_18 (A2), RexFury_14 (CA), Rhodalysa_14 (CA), RhynO_18 (A10), Rifter_21 (A6), RockieBear_17 (A4), Rocksand_17 (A4), Rockstar_17 (A3), Roimos_17 (A3), Roksolana_21 (A6), Romney_17 (A4), Roosevelt_17 (A4), Rosa24_16 (A4), Rosalind_20 (A15), Rowdy_20 (A10), Ruin_17 (A4), Rummer_19 (A3), Ruotula_16 (A1), RyeScarlet_19 (A9), Sabertooth_17 (A4), Sabia_19 (A3), Sabinator_19 (A3), Sachima_19 (A9), Salz_18 (A11), Saskia_18 (A11), SaturnRing_17 (A3), Scamp_17 (A4), Scherzo_19 (A9), Scout_17 (A3), SemperFi_20 (A2), SenorClean_17 (A4), Serenity_17 (A2), Severus_16 (A10), Shaka_17 (A4), Sham4_18 (A11), Shapes_20 (A10), ShayRa_21 (A15), SheaKeira_18 (A9), Sheen_19 (A7), SheldonCooper_18 (A4), Shep_17 (A3), Shuman_14 (CA), Shygu2_17 (A4), Skadoosh_17 (A4), Skipitt_17 (A4), Sknot_18 (A2), Smeagan_20 (A2), SmellyB_21 (A6), Smoothie_38 (CQ1), SnapTap_18 (A2), Snape_18 (A11), Snickers_19 (A3), SoYo_19 (A3), SoilDragon_19 (A3), Soshari_21 (A3), Soups_20 (A15), Sparxx_17 (A4), SpeedDemon_200 (DL), Spike509_19 (A3), Spino_17 (A4), Spouty_19 (A9), StCroix_14 (CA), Stagni_19 (A3), StarStuff_21 (A2),

Stasia_18 (A4), SteMason_17 (A4), Steamy_19 (A12), StepMih_19 (A3), Stink_18 (A4), Strosahl_20 (A15), Sultana_17 (A4), Sunhee_17 (A14), SuperAwesome_21 (A6), SuperCallie99_21 (A6), Superchunk_17 (A2), Swann_14 (CA), SweetiePie_18 (A2), SwirlSquare_19 (A2), Switzerland_20 (A15), TNguyen7_17 (A3), TWAMP_14 (CA), Tailonex_15 (singleton), Takoda_14 (CA), Taquarus_17 (A4), TarsusIV_18 (A2), Taurus_19 (A3), Temprado_21 (A6), Terrific_20 (A2), Texage_17 (A3), Thanksgivukkah_17 (A4), Tiffany_19 (A3), Timothy_18 (A11), Timshel_18 (A7), TinaFeyge_17 (A4), TinyPebbles_19 (A3), TinyTimmy_18 (A11), Tinybot_16 (A4), TipsytheTRex_17 (A2), TiroTheta9_17 (A4), Toaka_17 (A9), Todacoro_18 (A3), Tomathan_21 (A2), ToneTone_19 (A6), Toniann_37 (CQ1), Topanga_17 (A10), Toro_20 (A7), Towmatter_18 (DL), Travvers_21 (A2), Trike_15 (A10), Tristan_19 (A2), Trixie_21 (A2), Trooper_18 (A2), TroyPia_17 (A4), Tubs_19 (A9), Tucker_21 (A6), Turbido_20 (A2), Twister_17 (A10), TygerBlood_17 (A4), Ugenie5_16 (A9), UhSalsa_14 (CA), Ulysses_16 (A4), Updawg_20 (A2), VA6_18 (A2), VC3_21 (A2), Vanisoa_17 (A9), Veracruz_17 (A3), Vix_19 (A3), VohminGhazi_21 (A6), Waits_20 (A15), WalterMcMickey_17 (A10), Wander_17 (A4), Warrior24_20 (A15), Watson_19 (A3), WeiHuaDA_23 (A2), Whabigail7_20 (A2), WideWale_20 (A2), Wiks_21 (A6), Wilbur_17 (A4), Wile_17 (A4), WilliamBoone_37 (CQ1), Wizard007_17 (A4), Wolpertinger_17 (A11), Wooldri_21 (A3), WorldCup_16 (A9), WunderPhul_21 (A6), Xena_17 (A4), XianYue_18 (A2), Yecey3_18 (A9), YoSam321_17 (A4), Yogi_14 (CA), Yokurt_21 (A6), Yoncess_14 (CA), Yvonnetastic_34 (DD), Zaka_21 (A6), Zarafa_17 (A3), Zetzy_18 (A3), Zimmer_20 (A12), Zulu_21 (A6),

Summary by clusters:

There are 30 clusters represented in this pham: DL, DD, singleton, A15, A14, A17, A16, A11, A10, A13, A12, A19, A18, A1, A3, A2, A5, A4, A7, A6, A9, CQ2, CQ1, CA, A8, A20, A21, A22, F5, FQ1,

Info for manual annotations of cluster A1:
•Start number 5 was manually annotated 1 time for cluster A1.
•Start number 9 was manually annotated 4 times for cluster A1.
•Start number 11 was manually annotated 4 times for cluster A1.

Info for manual annotations of cluster A10:
•Start number 11 was manually annotated 17 times for cluster A10.

Info for manual annotations of cluster A11:
•Start number 11 was manually annotated 28 times for cluster A11.

Info for manual annotations of cluster A12:
•Start number 11 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A14:
•Start number 9 was manually annotated 1 time for cluster A14.
•Start number 11 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A15:
•Start number 11 was manually annotated 25 times for cluster A15.

Info for manual annotations of cluster A16:
•Start number 11 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:
•Start number 11 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:
•Start number 11 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:
•Start number 11 was manually annotated 117 times for cluster A2.

Info for manual annotations of cluster A20:
•Start number 11 was manually annotated 2 times for cluster A20.

Info for manual annotations of cluster A21:
•Start number 11 was manually annotated 1 time for cluster A21.

Info for manual annotations of cluster A22:
•Start number 11 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:
•Start number 11 was manually annotated 125 times for cluster A3.

Info for manual annotations of cluster A4:
•Start number 11 was manually annotated 144 times for cluster A4.

Info for manual annotations of cluster A5:
•Start number 10 was manually annotated 40 times for cluster A5.

Info for manual annotations of cluster A6:
•Start number 11 was manually annotated 50 times for cluster A6.

Info for manual annotations of cluster A7:
•Start number 11 was manually annotated 5 times for cluster A7.

Info for manual annotations of cluster A8:
•Start number 10 was manually annotated 12 times for cluster A8.

Info for manual annotations of cluster A9:
•Start number 11 was manually annotated 46 times for cluster A9.

Info for manual annotations of cluster CA:
•Start number 11 was manually annotated 36 times for cluster CA.

Info for manual annotations of cluster CQ1:
•Start number 11 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 11 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster DD:
•Start number 11 was manually annotated 3 times for cluster DD.

Info for manual annotations of cluster DL:
•Start number 11 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster F5:
•Start number 8 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster FQ1:
•Start number 11 was manually annotated 1 time for cluster FQ1.

Gene Information:

Gene: 20ES_18 Start: 13386, Stop: 13763, Start Num: 11
Candidate Starts for 20ES_18:
(Start: 11 @13386 has 642 MA's), (15, 13416), (16, 13419), (18, 13449), (26, 13488), (48, 13590), (74, 13725), (84, 13749), (86, 13752),

Gene: 40AC_21 Start: 15412, Stop: 15789, Start Num: 11
Candidate Starts for 40AC_21:
(Start: 11 @15412 has 642 MA's), (14, 15439), (18, 15475), (26, 15514), (48, 15616), (50, 15637), (83, 15772), (84, 15775), (86, 15778),

Gene: A6_15 Start: 12482, Stop: 12931, Start Num: 11
Candidate Starts for A6_15:
(Start: 11 @12482 has 642 MA's), (13, 12506), (74, 12818), (88, 12893),

Gene: ACFishhook_19 Start: 12951, Stop: 13322, Start Num: 11
Candidate Starts for ACFishhook_19:
(Start: 11 @12951 has 642 MA's), (13, 12975), (22, 13035), (26, 13053), (57, 13203), (74, 13284), (76, 13290), (84, 13308), (86, 13311),

Gene: AN3_18 Start: 13376, Stop: 13753, Start Num: 11
Candidate Starts for AN3_18:
(Start: 11 @13376 has 642 MA's), (15, 13406), (16, 13409), (18, 13439), (26, 13478), (74, 13715), (84, 13739), (86, 13742),

Gene: AN9_21 Start: 13381, Stop: 13758, Start Num: 11
Candidate Starts for AN9_21:
(Start: 11 @13381 has 642 MA's), (14, 13408), (16, 13414), (18, 13444), (26, 13483), (36, 13540), (48, 13585), (60, 13666), (74, 13720), (83, 13741), (84, 13744), (86, 13747),

Gene: ANI8_21 Start: 13381, Stop: 13758, Start Num: 11
Candidate Starts for ANI8_21:
(Start: 11 @13381 has 642 MA's), (14, 13408), (16, 13414), (18, 13444), (26, 13483), (36, 13540), (48, 13585), (60, 13666), (74, 13720), (83, 13741), (84, 13744), (86, 13747),

Gene: AbbyPaige_20 Start: 13836, Stop: 14213, Start Num: 11
Candidate Starts for AbbyPaige_20:
(Start: 11 @13836 has 642 MA's), (15, 13866), (16, 13869), (18, 13899), (26, 13938), (61, 14124), (74, 14175), (84, 14199), (86, 14202),

Gene: AbbysRanger_17 Start: 12708, Stop: 13064, Start Num: 11

Candidate Starts for AbbysRanger_17:
(Start: 11 @12708 has 642 MA's), (26, 12810), (38, 12858), (44, 12879), (57, 12945), (62, 12981), (80, 13038), (86, 13053),

Gene: Abdiel_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for Abdiel_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: Abscondus_36 Start: 15494, Stop: 15874, Start Num: 11
Candidate Starts for Abscondus_36:
(Start: 11 @15494 has 642 MA's), (14, 15521), (45, 15677), (75, 15830),

Gene: Achebe_17 Start: 12687, Stop: 13043, Start Num: 11
Candidate Starts for Achebe_17:
(Start: 11 @12687 has 642 MA's), (26, 12789), (38, 12837), (44, 12858), (57, 12924), (60, 12954), (62, 12960), (74, 13005), (86, 13032),

Gene: Acolyte_18 Start: 13504, Stop: 13881, Start Num: 11
Candidate Starts for Acolyte_18:
(Start: 11 @13504 has 642 MA's), (18, 13567), (26, 13606), (48, 13708), (61, 13792), (74, 13843), (76, 13849), (84, 13867), (86, 13870),

Gene: Adzzy_19 Start: 12119, Stop: 12496, Start Num: 11
Candidate Starts for Adzzy_19:
(Start: 11 @12119 has 642 MA's), (14, 12146), (16, 12152), (18, 12182), (26, 12221), (74, 12458), (84, 12482), (86, 12485),

Gene: Agape74_20 Start: 13836, Stop: 14213, Start Num: 11
Candidate Starts for Agape74_20:
(Start: 11 @13836 has 642 MA's), (15, 13866), (16, 13869), (18, 13899), (26, 13938), (61, 14124), (74, 14175), (84, 14199), (86, 14202),

Gene: AgentM_14 Start: 11878, Stop: 12252, Start Num: 10
Candidate Starts for AgentM_14:
(Start: 10 @11878 has 52 MA's), (13, 11902), (15, 11908), (45, 12070), (57, 12133), (60, 12163), (66, 12193), (74, 12214), (83, 12235), (84, 12238), (86, 12241),

Gene: Aglet_19 Start: 12797, Stop: 13168, Start Num: 11
Candidate Starts for Aglet_19:
(Start: 11 @12797 has 642 MA's), (13, 12821), (22, 12881), (26, 12899), (57, 13049), (74, 13130), (76, 13136), (84, 13154), (86, 13157),

Gene: AgronaGT15_19 Start: 12704, Stop: 13075, Start Num: 11
Candidate Starts for AgronaGT15_19:
(Start: 11 @12704 has 642 MA's), (13, 12728), (22, 12788), (26, 12806), (57, 12956), (74, 13037), (76, 13043), (84, 13061), (86, 13064),

Gene: Airmid_14 Start: 11638, Stop: 12012, Start Num: 10
Candidate Starts for Airmid_14:
(Start: 10 @11638 has 52 MA's), (13, 11662), (15, 11668), (45, 11830), (57, 11893), (65, 11950), (66, 11953), (74, 11974), (83, 11995), (84, 11998), (86, 12001),

Gene: Alatin_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for Alatin_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: Albee_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Albee_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Alberto7_18 Start: 12990, Stop: 13346, Start Num: 11
Candidate Starts for Alberto7_18:
(Start: 11 @12990 has 642 MA's), (26, 13092), (38, 13140), (44, 13161), (57, 13227), (62, 13263), (74, 13308), (86, 13335),

Gene: Aliter_19 Start: 14068, Stop: 14445, Start Num: 11
Candidate Starts for Aliter_19:
(Start: 11 @14068 has 642 MA's), (26, 14170), (67, 14389), (74, 14407), (76, 14413),

Gene: Alma_19 Start: 14147, Stop: 14524, Start Num: 11
Candidate Starts for Alma_19:
(Start: 11 @14147 has 642 MA's), (26, 14249), (67, 14468), (74, 14486), (76, 14492),

Gene: Alpacados_13 Start: 8846, Stop: 9226, Start Num: 11
Candidate Starts for Alpacados_13:
(Start: 11 @8846 has 642 MA's), (13, 8870), (21, 8918), (33, 8987), (48, 9050), (57, 9101), (72, 9179), (74, 9185), (82, 9206),

Gene: Anaysia_20 Start: 12490, Stop: 12867, Start Num: 11
Candidate Starts for Anaysia_20:
(Start: 11 @12490 has 642 MA's), (26, 12592), (45, 12682), (76, 12835), (84, 12853), (86, 12856),

Gene: Aneem_18 Start: 13928, Stop: 14305, Start Num: 11
Candidate Starts for Aneem_18:
(Start: 11 @13928 has 642 MA's), (13, 13952), (18, 13991), (26, 14030), (28, 14036), (83, 14288), (84, 14291), (86, 14294),

Gene: AngryOrchard_13 Start: 8829, Stop: 9209, Start Num: 11
Candidate Starts for AngryOrchard_13:
(Start: 11 @8829 has 642 MA's), (13, 8853), (21, 8901), (33, 8970), (38, 8997), (57, 9084), (72, 9162), (74, 9168), (82, 9189),

Gene: AnnaL29_21 Start: 15225, Stop: 15602, Start Num: 11
Candidate Starts for AnnaL29_21:
(Start: 11 @15225 has 642 MA's), (13, 15249), (14, 15252), (18, 15288), (26, 15327), (48, 15429), (83, 15585), (84, 15588), (86, 15591),

Gene: Annyong_17 Start: 12689, Stop: 13045, Start Num: 11
Candidate Starts for Annyong_17:
(Start: 11 @12689 has 642 MA's), (26, 12791), (38, 12839), (44, 12860), (57, 12926), (62, 12962), (74, 13007), (86, 13034),

Gene: Anon_18 Start: 12836, Stop: 13213, Start Num: 11

Candidate Starts for Anon_18:
(Start: 11 @12836 has 642 MA's), (20, 12905), (26, 12938), (57, 13091), (74, 13175), (83, 13196), (84, 13199), (86, 13202),

Gene: Anselm_18 Start: 13483, Stop: 13860, Start Num: 11
Candidate Starts for Anselm_18:
(Start: 11 @13483 has 642 MA's), (15, 13513), (16, 13516), (18, 13546), (26, 13585), (48, 13687), (74, 13822), (84, 13846), (86, 13849),

Gene: Anthony_17 Start: 11598, Stop: 11972, Start Num: 11
Candidate Starts for Anthony_17:
(Start: 11 @11598 has 642 MA's), (13, 11622), (26, 11700), (35, 11751), (57, 11853), (74, 11934), (84, 11958), (86, 11961),

Gene: Anubis_21 Start: 12682, Stop: 13053, Start Num: 11
Candidate Starts for Anubis_21:
(Start: 11 @12682 has 642 MA's), (13, 12706), (22, 12766), (26, 12784), (57, 12934), (74, 13015), (76, 13021), (84, 13039), (86, 13042),

Gene: Aphelion_37 Start: 15763, Stop: 16143, Start Num: 11
Candidate Starts for Aphelion_37:
(Start: 11 @15763 has 642 MA's), (14, 15790), (18, 15823), (75, 16099),

Gene: AppleCloud_12 Start: 8569, Stop: 8949, Start Num: 11
Candidate Starts for AppleCloud_12:
(Start: 11 @8569 has 642 MA's), (13, 8593), (20, 8638), (21, 8641), (33, 8710), (38, 8737), (57, 8824), (72, 8902), (74, 8908), (82, 8929),

Gene: Aragog_14 Start: 11908, Stop: 12282, Start Num: 10
Candidate Starts for Aragog_14:
(Start: 10 @11908 has 52 MA's), (13, 11932), (15, 11938), (45, 12100), (57, 12163), (60, 12193), (66, 12223), (74, 12244), (83, 12265), (84, 12268), (86, 12271),

Gene: ArcherNM_20 Start: 15177, Stop: 15554, Start Num: 11
Candidate Starts for ArcherNM_20:
(Start: 11 @15177 has 642 MA's), (15, 15207), (16, 15210), (18, 15240), (26, 15279), (33, 15318), (74, 15516), (84, 15540),

Gene: Archetta_14 Start: 11621, Stop: 11995, Start Num: 10
Candidate Starts for Archetta_14:
(Start: 10 @11621 has 52 MA's), (13, 11645), (15, 11651), (45, 11813), (57, 11876), (60, 11906), (66, 11936), (74, 11957), (83, 11978), (84, 11981), (86, 11984),

Gene: Arissanae_17 Start: 12240, Stop: 12617, Start Num: 11
Candidate Starts for Arissanae_17:
(Start: 11 @12240 has 642 MA's), (16, 12273), (26, 12342), (35, 12393), (67, 12561), (74, 12579), (76, 12585), (84, 12603), (86, 12606),

Gene: Artemis2UCLA_21 Start: 13362, Stop: 13739, Start Num: 11
Candidate Starts for Artemis2UCLA_21:
(Start: 11 @13362 has 642 MA's), (14, 13389), (16, 13395), (17, 13422), (18, 13425), (26, 13464), (53, 13605), (74, 13701), (84, 13725), (86, 13728),

Gene: Arturo_16 Start: 12799, Stop: 13155, Start Num: 11
Candidate Starts for Arturo_16:
(Start: 11 @12799 has 642 MA's), (26, 12901), (38, 12949), (44, 12970), (57, 13036), (62, 13072), (74, 13117), (86, 13144),

Gene: Astro_14 Start: 11398, Stop: 11772, Start Num: 10
Candidate Starts for Astro_14:
(Start: 10 @11398 has 52 MA's), (38, 11566), (45, 11590), (48, 11602), (57, 11653), (65, 11710), (66, 11713), (74, 11734), (83, 11755), (84, 11758),

Gene: AugsMagnumOpus_21 Start: 12788, Stop: 13159, Start Num: 11
Candidate Starts for AugsMagnumOpus_21:
(Start: 11 @12788 has 642 MA's), (13, 12812), (22, 12872), (26, 12890), (57, 13040), (74, 13121), (76, 13127), (84, 13145), (86, 13148),

Gene: AvatarAhPeg_18 Start: 12972, Stop: 13328, Start Num: 11
Candidate Starts for AvatarAhPeg_18:
(Start: 11 @12972 has 642 MA's), (26, 13074), (38, 13122), (44, 13143), (57, 13209), (62, 13245), (80, 13302), (86, 13317),

Gene: Avle17_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Avle17_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Ayanochan_19 Start: 14173, Stop: 14550, Start Num: 11
Candidate Starts for Ayanochan_19:
(Start: 11 @14173 has 642 MA's), (26, 14275), (67, 14494), (74, 14512), (76, 14518),

Gene: B1_15 Start: 11996, Stop: 12370, Start Num: 11
Candidate Starts for B1_15:
(Start: 11 @11996 has 642 MA's), (26, 12098), (38, 12164), (44, 12185), (57, 12251), (74, 12332), (76, 12338), (84, 12356),

Gene: BABullseye_21 Start: 13475, Stop: 13852, Start Num: 11
Candidate Starts for BABullseye_21:
(Start: 11 @13475 has 642 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (26, 13577), (74, 13814), (84, 13838), (86, 13841),

Gene: BK1_15 Start: 12482, Stop: 12931, Start Num: 11
Candidate Starts for BK1_15:
(Start: 11 @12482 has 642 MA's), (13, 12506), (74, 12818), (88, 12893),

Gene: Baby16_17 Start: 12697, Stop: 13053, Start Num: 11
Candidate Starts for Baby16_17:
(Start: 11 @12697 has 642 MA's), (26, 12799), (38, 12847), (44, 12868), (57, 12934), (62, 12970), (74, 13015), (86, 13042),

Gene: BabyBack_20 Start: 15016, Stop: 15393, Start Num: 11
Candidate Starts for BabyBack_20:
(Start: 11 @15016 has 642 MA's), (14, 15043), (16, 15049), (18, 15079), (26, 15118), (48, 15220), (61, 15304), (67, 15337), (70, 15346), (74, 15355), (83, 15376), (84, 15379), (86, 15382),

Gene: BabyJohn_16 Start: 12580, Stop: 12954, Start Num: 11
Candidate Starts for BabyJohn_16:
(Start: 11 @12580 has 642 MA's), (26, 12682), (38, 12748), (44, 12769), (57, 12835), (66, 12895), (74, 12916), (84, 12940),

Gene: BabyRay_17 Start: 12569, Stop: 12943, Start Num: 11
Candidate Starts for BabyRay_17:
(Start: 11 @12569 has 642 MA's), (26, 12671), (38, 12737), (44, 12758), (57, 12824), (74, 12905), (76, 12911), (84, 12929),

Gene: Bachita_39 Start: 16196, Stop: 16576, Start Num: 11
Candidate Starts for Bachita_39:
(Start: 11 @16196 has 642 MA's), (14, 16223), (18, 16256), (75, 16532),

Gene: Bachome_18 Start: 13925, Stop: 14302, Start Num: 11
Candidate Starts for Bachome_18:
(Start: 11 @13925 has 642 MA's), (13, 13949), (18, 13988), (26, 14027), (28, 14033), (83, 14285), (84, 14288), (86, 14291),

Gene: Backyardigan_17 Start: 12699, Stop: 13055, Start Num: 11
Candidate Starts for Backyardigan_17:
(Start: 11 @12699 has 642 MA's), (26, 12801), (38, 12849), (44, 12870), (57, 12936), (60, 12966), (62, 12972), (74, 13017), (86, 13044),

Gene: Bactobuster_19 Start: 15108, Stop: 15485, Start Num: 11
Candidate Starts for Bactobuster_19:
(Start: 11 @15108 has 642 MA's), (17, 15168), (18, 15171), (26, 15210), (48, 15312), (63, 15402), (66, 15423), (74, 15447),

Gene: Badger_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Badger_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (60, 12955), (62, 12961), (74, 13006), (86, 13033),

Gene: Baehexic_19 Start: 13883, Stop: 14260, Start Num: 11
Candidate Starts for Baehexic_19:
(Start: 11 @13883 has 642 MA's), (14, 13910), (16, 13916), (18, 13946), (26, 13985), (31, 14015), (48, 14087), (70, 14213), (74, 14222), (83, 14243), (84, 14246), (86, 14249),

Gene: BangNhom_17 Start: 13000, Stop: 13356, Start Num: 11
Candidate Starts for BangNhom_17:
(Start: 11 @13000 has 642 MA's), (26, 13102), (38, 13150), (44, 13171), (57, 13237), (62, 13273), (74, 13318), (86, 13345),

Gene: Bantam_19 Start: 13233, Stop: 13628, Start Num: 11
Candidate Starts for Bantam_19:
(Start: 11 @13233 has 642 MA's), (34, 13398), (41, 13422), (47, 13446),

Gene: Bartimeaus_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Bartimeaus_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Battleship_21 Start: 12605, Stop: 12982, Start Num: 11
Candidate Starts for Battleship_21:
(Start: 11 @12605 has 642 MA's), (26, 12707), (45, 12797), (76, 12950), (84, 12968), (86, 12971),

Gene: Beauxregard13_19 Start: 12796, Stop: 13167, Start Num: 11
Candidate Starts for Beauxregard13_19:
(Start: 11 @12796 has 642 MA's), (13, 12820), (22, 12880), (26, 12898), (57, 13048), (74, 13129), (76, 13135), (84, 13153), (86, 13156),

Gene: Beemo_19 Start: 14174, Stop: 14551, Start Num: 11
Candidate Starts for Beemo_19:
(Start: 11 @14174 has 642 MA's), (26, 14276), (67, 14495), (74, 14513), (76, 14519),

Gene: Belenaria_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for Belenaria_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: Bellris_17 Start: 12210, Stop: 12587, Start Num: 11
Candidate Starts for Bellris_17:
(Start: 11 @12210 has 642 MA's), (26, 12312), (67, 12531), (74, 12549), (76, 12555), (84, 12573), (86, 12576),

Gene: BellusTerra_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for BellusTerra_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: Benedict_14 Start: 11640, Stop: 12014, Start Num: 10
Candidate Starts for Benedict_14:
(Start: 10 @11640 has 52 MA's), (13, 11664), (15, 11670), (45, 11832), (57, 11895), (65, 11952), (66, 11955), (74, 11976), (83, 11997), (84, 12000), (86, 12003),

Gene: BengiVuitton_19 Start: 13799, Stop: 14176, Start Num: 11
Candidate Starts for BengiVuitton_19:
(Start: 11 @13799 has 642 MA's), (15, 13829), (16, 13832), (18, 13862), (26, 13901), (74, 14138), (84, 14162), (86, 14165),

Gene: BennyP_21 Start: 13484, Stop: 13861, Start Num: 11
Candidate Starts for BennyP_21:
(Start: 11 @13484 has 642 MA's), (14, 13511), (16, 13517), (17, 13544), (18, 13547), (26, 13586), (74, 13823), (84, 13847), (86, 13850),

Gene: Benvolio_18 Start: 13473, Stop: 13850, Start Num: 11
Candidate Starts for Benvolio_18:
(Start: 11 @13473 has 642 MA's), (15, 13503), (16, 13506), (18, 13536), (26, 13575), (45, 13665), (48, 13677), (74, 13812), (84, 13836), (86, 13839),

Gene: BiancaTri92_20 Start: 15161, Stop: 15538, Start Num: 11
Candidate Starts for BiancaTri92_20:
(Start: 11 @15161 has 642 MA's), (14, 15188), (16, 15194), (18, 15224), (26, 15263), (31, 15293), (32, 15299), (48, 15365), (74, 15500), (84, 15524), (86, 15527),

Gene: Bigflo_19 Start: 12794, Stop: 13165, Start Num: 11
Candidate Starts for Bigflo_19:
(Start: 11 @12794 has 642 MA's), (13, 12818), (22, 12878), (26, 12896), (57, 13046), (74, 13127), (76, 13133), (84, 13151), (86, 13154),

Gene: BillKnuckles_17 Start: 13547, Stop: 13924, Start Num: 9
Candidate Starts for BillKnuckles_17:
(Start: 5 @13502 has 1 MA's), (Start: 9 @13547 has 5 MA's), (13, 13574), (26, 13652), (38, 13718), (45, 13742), (57, 13805), (60, 13835), (65, 13862), (78, 13895), (83, 13907), (84, 13910), (86, 13913),

Gene: Blackmoor_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Blackmoor_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: BlessJoy_21 Start: 13460, Stop: 13837, Start Num: 11
Candidate Starts for BlessJoy_21:
(Start: 11 @13460 has 642 MA's), (14, 13487), (16, 13493), (17, 13520), (18, 13523), (26, 13562), (74, 13799), (84, 13823), (86, 13826),

Gene: Blinn1_21 Start: 13517, Stop: 13894, Start Num: 11
Candidate Starts for Blinn1_21:
(Start: 11 @13517 has 642 MA's), (14, 13544), (16, 13550), (17, 13577), (18, 13580), (26, 13619), (48, 13721), (74, 13856), (84, 13880), (86, 13883),

Gene: Blue7_21 Start: 13452, Stop: 13829, Start Num: 11
Candidate Starts for Blue7_21:
(Start: 11 @13452 has 642 MA's), (14, 13479), (17, 13512), (18, 13515), (26, 13554), (53, 13695), (74, 13791), (84, 13815), (86, 13818),

Gene: BlueBird_18 Start: 12343, Stop: 12717, Start Num: 11
Candidate Starts for BlueBird_18:
(Start: 11 @12343 has 642 MA's), (26, 12445), (38, 12511), (44, 12532), (57, 12598), (74, 12679), (76, 12685), (84, 12703),

Gene: Bluefalcon_13 Start: 11878, Stop: 12252, Start Num: 10
Candidate Starts for Bluefalcon_13:
(Start: 10 @11878 has 52 MA's), (13, 11902), (15, 11908), (45, 12070), (57, 12133), (60, 12163), (66, 12193), (74, 12214), (83, 12235), (84, 12238), (86, 12241),

Gene: BobSwaget_21 Start: 15027, Stop: 15404, Start Num: 11
Candidate Starts for BobSwaget_21:
(Start: 11 @15027 has 642 MA's), (14, 15054), (18, 15090), (26, 15129), (48, 15231), (61, 15315), (74, 15366), (84, 15390), (86, 15393),

Gene: BobbyDazzler_14 Start: 8955, Stop: 9335, Start Num: 11
Candidate Starts for BobbyDazzler_14:
(Start: 11 @8955 has 642 MA's), (13, 8979), (21, 9027), (33, 9096), (38, 9123), (57, 9210), (72, 9288), (74, 9294), (82, 9315),

Gene: BogosyJay_19 Start: 13894, Stop: 14271, Start Num: 11
Candidate Starts for BogosyJay_19:
(Start: 11 @13894 has 642 MA's), (14, 13921), (18, 13957), (26, 13996), (74, 14233), (76, 14239),

Gene: Bombshell_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Bombshell_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Bonamassa_14 Start: 11800, Stop: 12174, Start Num: 10
Candidate Starts for Bonamassa_14:
(Start: 10 @11800 has 52 MA's), (13, 11824), (15, 11830), (38, 11968), (45, 11992), (57, 12055), (66, 12115), (74, 12136), (83, 12157), (84, 12160), (86, 12163),

Gene: Bonanza_14 Start: 8884, Stop: 9264, Start Num: 11
Candidate Starts for Bonanza_14:
(Start: 11 @8884 has 642 MA's), (13, 8908), (21, 8956), (33, 9025), (48, 9088), (57, 9139), (72, 9217), (74, 9223), (82, 9244),

Gene: Boohoo_20 Start: 12490, Stop: 12867, Start Num: 11
Candidate Starts for Boohoo_20:
(Start: 11 @12490 has 642 MA's), (26, 12592), (45, 12682), (76, 12835), (84, 12853), (86, 12856),

Gene: Bowtie_18 Start: 13928, Stop: 14305, Start Num: 11
Candidate Starts for Bowtie_18:
(Start: 11 @13928 has 642 MA's), (13, 13952), (18, 13991), (26, 14030), (28, 14036), (83, 14288), (84, 14291), (86, 14294),

Gene: Bradman_17 Start: 12293, Stop: 12670, Start Num: 11
Candidate Starts for Bradman_17:
(Start: 11 @12293 has 642 MA's), (14, 12320), (16, 12326), (17, 12353), (18, 12356), (26, 12395), (48, 12497), (74, 12632), (83, 12653), (84, 12656), (86, 12659),

Gene: Bradshaw_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for Bradshaw_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: BreSam8_19 Start: 12789, Stop: 13160, Start Num: 11
Candidate Starts for BreSam8_19:
(Start: 11 @12789 has 642 MA's), (13, 12813), (22, 12873), (26, 12891), (57, 13041), (74, 13122), (76, 13128), (84, 13146), (86, 13149),

Gene: Broseidon_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Broseidon_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Bruiser_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Bruiser_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: BrutonGaster_25 Start: 12392, Stop: 12775, Start Num: 11
Candidate Starts for BrutonGaster_25:
(Start: 11 @12392 has 642 MA's), (42, 12563), (75, 12728),

Gene: Bryce_14 Start: 8884, Stop: 9264, Start Num: 11
Candidate Starts for Bryce_14:
(Start: 11 @8884 has 642 MA's), (13, 8908), (21, 8956), (33, 9025), (38, 9052), (48, 9088), (50, 9109), (57, 9139), (72, 9217), (74, 9223), (82, 9244),

Gene: BubbleTrouble_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for BubbleTrouble_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (60, 12955), (62, 12961), (74, 13006), (86, 13033),

Gene: Buckaroo_16 Start: 12692, Stop: 13048, Start Num: 11
Candidate Starts for Buckaroo_16:
(Start: 11 @12692 has 642 MA's), (26, 12794), (38, 12842), (44, 12863), (57, 12929), (62, 12965), (74, 13010), (86, 13037),

Gene: Bud_18 Start: 13934, Stop: 14311, Start Num: 11
Candidate Starts for Bud_18:
(Start: 11 @13934 has 642 MA's), (13, 13958), (18, 13997), (26, 14036), (28, 14042), (83, 14294), (84, 14297), (86, 14300),

Gene: Bugatti_18 Start: 12343, Stop: 12717, Start Num: 11
Candidate Starts for Bugatti_18:
(Start: 11 @12343 has 642 MA's), (26, 12445), (38, 12511), (44, 12532), (57, 12598), (74, 12679), (76, 12685), (84, 12703),

Gene: Bugsy_20 Start: 13835, Stop: 14212, Start Num: 11
Candidate Starts for Bugsy_20:
(Start: 11 @13835 has 642 MA's), (15, 13865), (16, 13868), (18, 13898), (26, 13937), (61, 14123), (74, 14174), (84, 14198), (86, 14201),

Gene: Bumblebee11_17 Start: 12690, Stop: 13046, Start Num: 11
Candidate Starts for Bumblebee11_17:
(Start: 11 @12690 has 642 MA's), (26, 12792), (38, 12840), (44, 12861), (57, 12927), (62, 12963), (80, 13020), (86, 13035),

Gene: Burger_16 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Burger_16:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: BuzzBuzz_18 Start: 12880, Stop: 13251, Start Num: 11
Candidate Starts for BuzzBuzz_18:
(Start: 11 @12880 has 642 MA's), (13, 12904), (22, 12964), (26, 12982), (57, 13132), (74, 13213), (76, 13219), (84, 13237), (86, 13240),

Gene: Bxb1_15 Start: 12916, Stop: 13293, Start Num: 9
Candidate Starts for Bxb1_15:
(Start: 5 @12871 has 1 MA's), (Start: 9 @12916 has 5 MA's), (13, 12943), (26, 13021), (38, 13087), (45, 13111), (57, 13174), (65, 13231), (78, 13264), (83, 13276), (84, 13279), (86, 13282),

Gene: Bxz2_19 Start: 12890, Stop: 13261, Start Num: 11
Candidate Starts for Bxz2_19:

(Start: 11 @12890 has 642 MA's), (13, 12914), (22, 12974), (26, 12992), (57, 13142), (74, 13223), (76, 13229), (84, 13247), (86, 13250),

Gene: C3_16 Start: 13381, Stop: 13758, Start Num: 11
Candidate Starts for C3_16:
(Start: 11 @13381 has 642 MA's), (14, 13408), (16, 13414), (18, 13444), (26, 13483), (36, 13540), (48, 13585), (60, 13666), (74, 13720), (83, 13741), (84, 13744), (86, 13747),

Gene: CRB1_18 Start: 13355, Stop: 13732, Start Num: 11
Candidate Starts for CRB1_18:
(Start: 11 @13355 has 642 MA's), (14, 13382), (16, 13388), (18, 13418), (26, 13457), (61, 13643), (74, 13694), (84, 13718), (86, 13721),

Gene: Caelakin_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Caelakin_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Caitlin_14 Start: 11395, Stop: 11769, Start Num: 10
Candidate Starts for Caitlin_14:
(Start: 10 @11395 has 52 MA's), (38, 11563), (45, 11587), (48, 11599), (57, 11650), (65, 11707), (66, 11710), (74, 11731), (83, 11752), (84, 11755),

Gene: Calvinny_19 Start: 12870, Stop: 13241, Start Num: 11
Candidate Starts for Calvinny_19:
(Start: 11 @12870 has 642 MA's), (13, 12894), (22, 12954), (26, 12972), (57, 13122), (74, 13203), (76, 13209), (84, 13227), (86, 13230),

Gene: Camperdownii_16 Start: 12307, Stop: 12663, Start Num: 11
Candidate Starts for Camperdownii_16:
(Start: 11 @12307 has 642 MA's), (26, 12409), (38, 12457), (44, 12478), (57, 12544), (62, 12580), (74, 12625), (86, 12652),

Gene: Candra_21 Start: 13518, Stop: 13895, Start Num: 11
Candidate Starts for Candra_21:
(Start: 11 @13518 has 642 MA's), (14, 13545), (16, 13551), (17, 13578), (18, 13581), (26, 13620), (74, 13857), (84, 13881), (86, 13884),

Gene: Caraxes_17 Start: 12019, Stop: 12396, Start Num: 11
Candidate Starts for Caraxes_17:
(Start: 11 @12019 has 642 MA's), (14, 12046), (16, 12052), (18, 12082), (26, 12121), (74, 12358), (84, 12382), (86, 12385),

Gene: Cardigan_35 Start: 17393, Stop: 17779, Start Num: 11
Candidate Starts for Cardigan_35:
(Start: 11 @17393 has 642 MA's), (25, 17489), (42, 17564), (52, 17621), (71, 17720), (85, 17759),

Gene: Cat_15 Start: 12188, Stop: 12562, Start Num: 11
Candidate Starts for Cat_15:
(Start: 11 @12188 has 642 MA's), (26, 12290), (38, 12356), (44, 12377), (57, 12443), (74, 12524), (76, 12530), (84, 12548),

Gene: Catalina_19 Start: 14141, Stop: 14518, Start Num: 11

Candidate Starts for Catalina_19:
(Start: 11 @14141 has 642 MA's), (26, 14243), (67, 14462), (74, 14480), (76, 14486),

Gene: Caviar_18 Start: 12884, Stop: 13258, Start Num: 11
Candidate Starts for Caviar_18:
(Start: 11 @12884 has 642 MA's), (13, 12908), (26, 12986), (38, 13052), (44, 13073), (57, 13139), (74, 13220), (84, 13244),

Gene: Celestialunch_17 Start: 12310, Stop: 12687, Start Num: 11
Candidate Starts for Celestialunch_17:
(Start: 11 @12310 has 642 MA's), (20, 12379), (26, 12412), (61, 12598), (67, 12631), (74, 12649), (84, 12673), (86, 12676),

Gene: Centaur_20 Start: 13861, Stop: 14238, Start Num: 11
Candidate Starts for Centaur_20:
(Start: 11 @13861 has 642 MA's), (14, 13888), (16, 13894), (18, 13924), (26, 13963), (31, 13993), (48, 14065), (74, 14200), (83, 14221), (84, 14224), (86, 14227),

Gene: CentreCat_17 Start: 12689, Stop: 13045, Start Num: 11
Candidate Starts for CentreCat_17:
(Start: 11 @12689 has 642 MA's), (26, 12791), (38, 12839), (44, 12860), (57, 12926), (62, 12962), (74, 13007), (86, 13034),

Gene: Cerulean_18 Start: 13001, Stop: 13357, Start Num: 11
Candidate Starts for Cerulean_18:
(Start: 11 @13001 has 642 MA's), (26, 13103), (38, 13151), (44, 13172), (57, 13238), (62, 13274), (74, 13319), (86, 13346),

Gene: Chadwick_15 Start: 11608, Stop: 11982, Start Num: 10
Candidate Starts for Chadwick_15:
(Start: 10 @11608 has 52 MA's), (13, 11632), (15, 11638), (45, 11800), (57, 11863), (66, 11923), (74, 11944), (83, 11965), (84, 11968), (86, 11971),

Gene: ChampagnePapi_18 Start: 13000, Stop: 13356, Start Num: 11
Candidate Starts for ChampagnePapi_18:
(Start: 11 @13000 has 642 MA's), (26, 13102), (38, 13150), (44, 13171), (57, 13237), (62, 13273), (74, 13318), (86, 13345),

Gene: Changeling_21 Start: 15226, Stop: 15603, Start Num: 11
Candidate Starts for Changeling_21:
(Start: 11 @15226 has 642 MA's), (14, 15253), (15, 15256), (18, 15289), (26, 15328), (32, 15364), (48, 15430), (83, 15586), (84, 15589), (86, 15592),

Gene: Chaph_17 Start: 12697, Stop: 13053, Start Num: 11
Candidate Starts for Chaph_17:
(Start: 11 @12697 has 642 MA's), (26, 12799), (38, 12847), (44, 12868), (57, 12934), (62, 12970), (74, 13015), (86, 13042),

Gene: Chargerpower_18 Start: 12591, Stop: 12968, Start Num: 11
Candidate Starts for Chargerpower_18:
(Start: 11 @12591 has 642 MA's), (15, 12621), (17, 12651), (26, 12693), (48, 12795), (60, 12876), (74, 12930), (83, 12951), (84, 12954), (86, 12957),

Gene: Charm_18 Start: 12322, Stop: 12699, Start Num: 11
Candidate Starts for Charm_18:
(Start: 11 @12322 has 642 MA's), (26, 12424), (35, 12475), (61, 12610), (67, 12643), (74, 12661), (84, 12685), (86, 12688),

Gene: Chartreuse_21 Start: 13431, Stop: 13808, Start Num: 11
Candidate Starts for Chartreuse_21:
(Start: 11 @13431 has 642 MA's), (14, 13458), (16, 13464), (17, 13491), (18, 13494), (26, 13533), (74, 13770), (84, 13794), (86, 13797),

Gene: Che12_20 Start: 12285, Stop: 12662, Start Num: 11
Candidate Starts for Che12_20:
(Start: 11 @12285 has 642 MA's), (14, 12312), (16, 12318), (18, 12348), (26, 12387), (74, 12624), (84, 12648), (86, 12651),

Gene: ChipMunk_20 Start: 13771, Stop: 14148, Start Num: 11
Candidate Starts for ChipMunk_20:
(Start: 11 @13771 has 642 MA's), (15, 13801), (16, 13804), (18, 13834), (26, 13873), (48, 13975), (74, 14110), (76, 14116), (84, 14134), (86, 14137),

Gene: Chiqui_16 Start: 12580, Stop: 12954, Start Num: 11
Candidate Starts for Chiqui_16:
(Start: 11 @12580 has 642 MA's), (26, 12682), (38, 12748), (44, 12769), (57, 12835), (66, 12895), (74, 12916), (84, 12940),

Gene: Chupacabra_17 Start: 12449, Stop: 12823, Start Num: 11
Candidate Starts for Chupacabra_17:
(Start: 11 @12449 has 642 MA's), (26, 12551), (38, 12617), (44, 12638), (57, 12704), (62, 12740), (74, 12785), (76, 12791), (86, 12812),

Gene: Cici_17 Start: 12681, Stop: 13037, Start Num: 11
Candidate Starts for Cici_17:
(Start: 11 @12681 has 642 MA's), (26, 12783), (38, 12831), (44, 12852), (57, 12918), (62, 12954), (80, 13011), (86, 13026),

Gene: Cindaradix_16 Start: 12415, Stop: 12771, Start Num: 11
Candidate Starts for Cindaradix_16:
(Start: 11 @12415 has 642 MA's), (26, 12517), (38, 12565), (44, 12586), (57, 12652), (62, 12688), (80, 12745), (86, 12760),

Gene: Cintron_17 Start: 12736, Stop: 13092, Start Num: 11
Candidate Starts for Cintron_17:
(Start: 11 @12736 has 642 MA's), (26, 12838), (38, 12886), (44, 12907), (57, 12973), (62, 13009), (74, 13054), (86, 13081),

Gene: Citius_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Citius_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Clammy_18 Start: 12343, Stop: 12717, Start Num: 11
Candidate Starts for Clammy_18:

(Start: 11 @12343 has 642 MA's), (26, 12445), (38, 12511), (44, 12532), (57, 12598), (74, 12679), (76, 12685), (84, 12703),

Gene: Clarenza_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for Clarenza_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: CloudWang3_21 Start: 13462, Stop: 13839, Start Num: 11
Candidate Starts for CloudWang3_21:
(Start: 11 @13462 has 642 MA's), (14, 13489), (16, 13495), (17, 13522), (18, 13525), (26, 13564), (74, 13801), (84, 13825), (86, 13828),

Gene: ClownCar_19 Start: 12862, Stop: 13233, Start Num: 11
Candidate Starts for ClownCar_19:
(Start: 11 @12862 has 642 MA's), (13, 12886), (22, 12946), (26, 12964), (57, 13114), (74, 13195), (76, 13201), (84, 13219), (86, 13222),

Gene: ClubL_37 Start: 15685, Stop: 16065, Start Num: 11
Candidate Starts for ClubL_37:
(Start: 11 @15685 has 642 MA's), (14, 15712), (18, 15745), (75, 16021),

Gene: Cocoaberry_17 Start: 12692, Stop: 13048, Start Num: 11
Candidate Starts for Cocoaberry_17:
(Start: 11 @12692 has 642 MA's), (26, 12794), (38, 12842), (44, 12863), (57, 12929), (62, 12965), (74, 13010), (86, 13037),

Gene: CogOmlette_16 Start: 12210, Stop: 12587, Start Num: 11
Candidate Starts for CogOmlette_16:
(Start: 11 @12210 has 642 MA's), (26, 12312), (67, 12531), (74, 12549), (76, 12555), (84, 12573), (86, 12576),

Gene: Colbster_19 Start: 12796, Stop: 13167, Start Num: 11
Candidate Starts for Colbster_19:
(Start: 11 @12796 has 642 MA's), (13, 12820), (22, 12880), (26, 12898), (57, 13048), (74, 13129), (76, 13135), (84, 13153), (86, 13156),

Gene: Colin_21 Start: 15065, Stop: 15442, Start Num: 11
Candidate Starts for Colin_21:
(Start: 11 @15065 has 642 MA's), (13, 15089), (14, 15092), (18, 15128), (26, 15167), (32, 15203), (48, 15269), (74, 15404), (83, 15425), (84, 15428), (86, 15431),

Gene: Commander_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Commander_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Connomayer_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Connomayer_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (60, 12955), (62, 12961), (74, 13006), (86, 13033),

Gene: Conquerage_19 Start: 14170, Stop: 14547, Start Num: 11

Candidate Starts for Conquerage_19:
(Start: 11 @14170 has 642 MA's), (26, 14272), (67, 14491), (74, 14509), (76, 14515),

Gene: Conspiracy_14 Start: 11624, Stop: 11998, Start Num: 10
Candidate Starts for Conspiracy_14:
(Start: 10 @11624 has 52 MA's), (13, 11648), (15, 11654), (38, 11792), (45, 11816), (57, 11879), (66, 11939), (74, 11960), (83, 11981), (84, 11984), (86, 11987),

Gene: Coog_14 Start: 11768, Stop: 12142, Start Num: 10
Candidate Starts for Coog_14:
(Start: 10 @11768 has 52 MA's), (13, 11792), (15, 11798), (38, 11936), (45, 11960), (57, 12023), (66, 12083), (74, 12104), (83, 12125), (84, 12128), (86, 12131),

Gene: Cookiedough_21 Start: 13475, Stop: 13852, Start Num: 11
Candidate Starts for Cookiedough_21:
(Start: 11 @13475 has 642 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (26, 13577), (74, 13814), (84, 13838), (86, 13841),

Gene: Cornie_8 Start: 6217, Stop: 6663, Start Num: 8
Candidate Starts for Cornie_8:
(Start: 8 @6217 has 1 MA's), (27, 6343), (28, 6346), (37, 6424), (42, 6445), (45, 6457), (54, 6517), (55, 6520), (64, 6583), (66, 6592), (68, 6598),

Gene: CosmicSans_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for CosmicSans_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: Croquant_20 Start: 12794, Stop: 13165, Start Num: 11
Candidate Starts for Croquant_20:
(Start: 11 @12794 has 642 MA's), (13, 12818), (22, 12878), (26, 12896), (57, 13046), (74, 13127), (76, 13133), (84, 13151), (86, 13154),

Gene: Crucio_18 Start: 13318, Stop: 13695, Start Num: 11
Candidate Starts for Crucio_18:
(Start: 11 @13318 has 642 MA's), (15, 13348), (16, 13351), (18, 13381), (26, 13420), (48, 13522), (74, 13657), (76, 13663), (84, 13681),

Gene: Cuco_14 Start: 11799, Stop: 12173, Start Num: 10
Candidate Starts for Cuco_14:
(Start: 10 @11799 has 52 MA's), (13, 11823), (15, 11829), (38, 11967), (45, 11991), (57, 12054), (66, 12114), (74, 12135), (83, 12156), (84, 12159), (86, 12162),

Gene: Cucurbita_39 Start: 17055, Stop: 17435, Start Num: 11
Candidate Starts for Cucurbita_39:
(Start: 11 @17055 has 642 MA's), (14, 17082), (18, 17115), (75, 17391),

Gene: Cullens_19 Start: 12794, Stop: 13165, Start Num: 11
Candidate Starts for Cullens_19:
(Start: 11 @12794 has 642 MA's), (13, 12818), (22, 12878), (26, 12896), (57, 13046), (74, 13127), (76, 13133), (84, 13151), (86, 13154),

Gene: Culver_37 Start: 15494, Stop: 15874, Start Num: 11

Candidate Starts for Culver_37:
(Start: 11 @15494 has 642 MA's), (14, 15521), (45, 15677), (75, 15830),

Gene: D29_19 Start: 13272, Stop: 13646, Start Num: 11
Candidate Starts for D29_19:
(Start: 11 @13272 has 642 MA's), (14, 13299), (16, 13305), (18, 13335), (26, 13374), (32, 13410), (45, 13461), (48, 13473), (66, 13584), (74, 13608), (84, 13632), (86, 13635),

Gene: D32_21 Start: 13272, Stop: 13646, Start Num: 11
Candidate Starts for D32_21:
(Start: 11 @13272 has 642 MA's), (14, 13299), (16, 13305), (18, 13335), (26, 13374), (32, 13410), (45, 13461), (48, 13473), (66, 13584), (74, 13608), (84, 13632), (86, 13635),

Gene: DBQu4n_21 Start: 13272, Stop: 13646, Start Num: 11
Candidate Starts for DBQu4n_21:
(Start: 11 @13272 has 642 MA's), (14, 13299), (16, 13305), (18, 13335), (26, 13374), (32, 13410), (45, 13461), (48, 13473), (66, 13584), (74, 13608), (84, 13632), (86, 13635),

Gene: DaHudson_19 Start: 12788, Stop: 13159, Start Num: 11
Candidate Starts for DaHudson_19:
(Start: 11 @12788 has 642 MA's), (13, 12812), (22, 12872), (26, 12890), (57, 13040), (74, 13121), (76, 13127), (84, 13145), (86, 13148),

Gene: DaVinci_21 Start: 13485, Stop: 13862, Start Num: 11
Candidate Starts for DaVinci_21:
(Start: 11 @13485 has 642 MA's), (14, 13512), (16, 13518), (17, 13545), (18, 13548), (26, 13587), (74, 13824), (84, 13848), (86, 13851),

Gene: Daishi_18 Start: 11721, Stop: 12092, Start Num: 11
Candidate Starts for Daishi_18:
(Start: 11 @11721 has 642 MA's), (13, 11745), (22, 11805), (26, 11823), (57, 11973), (74, 12054), (76, 12060), (84, 12078), (86, 12081),

Gene: Dalmatian_18 Start: 13468, Stop: 13845, Start Num: 11
Candidate Starts for Dalmatian_18:
(Start: 11 @13468 has 642 MA's), (15, 13498), (16, 13501), (18, 13531), (26, 13570), (48, 13672), (74, 13807), (84, 13831), (86, 13834),

Gene: Danforth_13 Start: 11377, Stop: 11751, Start Num: 10
Candidate Starts for Danforth_13:
(Start: 10 @11377 has 52 MA's), (38, 11545), (45, 11569), (48, 11581), (57, 11632), (65, 11689), (66, 11692), (74, 11713), (83, 11734), (84, 11737),

Gene: Daredevil_19 Start: 12081, Stop: 12467, Start Num: 11
Candidate Starts for Daredevil_19:
(Start: 11 @12081 has 642 MA's), (42, 12264),

Gene: Darrell_20 Start: 14332, Stop: 14709, Start Num: 11
Candidate Starts for Darrell_20:
(Start: 11 @14332 has 642 MA's), (18, 14395), (26, 14434), (31, 14464), (35, 14485), (36, 14491), (61, 14620), (67, 14653), (74, 14671), (76, 14677), (84, 14695), (86, 14698),

Gene: DarthPhader_19 Start: 14307, Stop: 14684, Start Num: 11

Candidate Starts for DarthPhader_19:
(Start: 11 @14307 has 642 MA's), (15, 14337), (17, 14367), (18, 14370), (26, 14409), (31, 14439), (44, 14496), (48, 14511), (50, 14532), (74, 14646), (76, 14652), (84, 14670),

Gene: DatBoi_20 Start: 14024, Stop: 14419, Start Num: 11
Candidate Starts for DatBoi_20:
(Start: 11 @14024 has 642 MA's), (32, 14162), (41, 14213), (47, 14237),

Gene: Datway_17 Start: 12699, Stop: 13055, Start Num: 11
Candidate Starts for Datway_17:
(Start: 11 @12699 has 642 MA's), (26, 12801), (38, 12849), (44, 12870), (57, 12936), (60, 12966), (62, 12972), (74, 13017), (86, 13044),

Gene: Deano_17 Start: 12696, Stop: 13052, Start Num: 11
Candidate Starts for Deano_17:
(Start: 11 @12696 has 642 MA's), (26, 12798), (38, 12846), (44, 12867), (57, 12933), (62, 12969), (74, 13014), (86, 13041),

Gene: DeerParkTS_19 Start: 13432, Stop: 13809, Start Num: 11
Candidate Starts for DeerParkTS_19:
(Start: 11 @13432 has 642 MA's), (14, 13459), (16, 13465), (18, 13495), (26, 13534), (48, 13636), (61, 13720), (74, 13771), (76, 13777), (84, 13795), (86, 13798),

Gene: DekHockey33_20 Start: 12612, Stop: 12989, Start Num: 11
Candidate Starts for DekHockey33_20:
(Start: 11 @12612 has 642 MA's), (26, 12714), (45, 12804), (76, 12957), (84, 12975), (86, 12978),

Gene: Deloris_19 Start: 13799, Stop: 14176, Start Num: 11
Candidate Starts for Deloris_19:
(Start: 11 @13799 has 642 MA's), (15, 13829), (16, 13832), (18, 13862), (26, 13901), (74, 14138), (84, 14162), (86, 14165),

Gene: DelvinSonDorr_20 Start: 13475, Stop: 13852, Start Num: 11
Candidate Starts for DelvinSonDorr_20:
(Start: 11 @13475 has 642 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (26, 13577), (74, 13814), (84, 13838), (86, 13841),

Gene: Dhanush_17 Start: 12691, Stop: 13047, Start Num: 11
Candidate Starts for Dhanush_17:
(Start: 11 @12691 has 642 MA's), (26, 12793), (38, 12841), (44, 12862), (57, 12928), (62, 12964), (74, 13009), (86, 13036),

Gene: Dieselweasel_19 Start: 12797, Stop: 13168, Start Num: 11
Candidate Starts for Dieselweasel_19:
(Start: 11 @12797 has 642 MA's), (13, 12821), (22, 12881), (26, 12899), (57, 13049), (74, 13130), (76, 13136), (84, 13154), (86, 13157),

Gene: Dignity_20 Start: 13780, Stop: 14157, Start Num: 11
Candidate Starts for Dignity_20:
(Start: 11 @13780 has 642 MA's), (15, 13810), (16, 13813), (18, 13843), (26, 13882), (61, 14068), (74, 14119), (84, 14143), (86, 14146),

Gene: Dinger_14 Start: 8880, Stop: 9260, Start Num: 11

Candidate Starts for Dinger_14:
(Start: 11 @8880 has 642 MA's), (13, 8904), (21, 8952), (33, 9021), (38, 9048), (57, 9135), (72, 9213), (74, 9219), (82, 9240),

Gene: DirtyDunning_17 Start: 12684, Stop: 13040, Start Num: 11
Candidate Starts for DirtyDunning_17:
(Start: 11 @12684 has 642 MA's), (26, 12786), (38, 12834), (44, 12855), (57, 12921), (62, 12957), (74, 13002), (86, 13029),

Gene: Discoknowium_14 Start: 11914, Stop: 12288, Start Num: 10
Candidate Starts for Discoknowium_14:
(Start: 10 @11914 has 52 MA's), (13, 11938), (15, 11944), (38, 12082), (45, 12106), (57, 12169), (66, 12229), (74, 12250), (83, 12271), (84, 12274), (86, 12277),

Gene: Dixon_14 Start: 11396, Stop: 11770, Start Num: 10
Candidate Starts for Dixon_14:
(Start: 10 @11396 has 52 MA's), (38, 11564), (45, 11588), (48, 11600), (57, 11651), (65, 11708), (66, 11711), (74, 11732), (83, 11753), (84, 11756),

Gene: DontArgue_16 Start: 10707, Stop: 11081, Start Num: 11
Candidate Starts for DontArgue_16:
(Start: 11 @10707 has 642 MA's), (26, 10809), (38, 10875), (44, 10896), (45, 10899), (57, 10962), (62, 10998), (74, 11043), (76, 11049), (86, 11070),

Gene: Dorothea_21 Start: 13486, Stop: 13863, Start Num: 11
Candidate Starts for Dorothea_21:
(Start: 11 @13486 has 642 MA's), (14, 13513), (16, 13519), (17, 13546), (18, 13549), (26, 13588), (74, 13825), (84, 13849), (86, 13852),

Gene: Drake55_20 Start: 13879, Stop: 14256, Start Num: 11
Candidate Starts for Drake55_20:
(Start: 11 @13879 has 642 MA's), (14, 13906), (16, 13912), (18, 13942), (26, 13981), (31, 14011), (48, 14083), (74, 14218), (83, 14239), (84, 14242), (86, 14245),

Gene: Drake94_16 Start: 10540, Stop: 10914, Start Num: 11
Candidate Starts for Drake94_16:
(Start: 11 @10540 has 642 MA's), (26, 10642), (38, 10708), (44, 10729), (46, 10735), (57, 10795), (62, 10831), (66, 10855), (86, 10903),

Gene: DreamTeam1_18 Start: 12322, Stop: 12699, Start Num: 11
Candidate Starts for DreamTeam1_18:
(Start: 11 @12322 has 642 MA's), (26, 12424), (35, 12475), (61, 12610), (67, 12643), (74, 12661), (84, 12685), (86, 12688),

Gene: DroogsArmy_18 Start: 14037, Stop: 14411, Start Num: 11
Candidate Starts for DroogsArmy_18:
(Start: 11 @14037 has 642 MA's), (26, 14139), (38, 14205), (39, 14208), (44, 14226), (45, 14229), (46, 14232), (57, 14292), (59, 14307), (74, 14373), (80, 14385), (84, 14397), (86, 14400),

Gene: DropBear_17 Start: 12403, Stop: 12777, Start Num: 11
Candidate Starts for DropBear_17:
(Start: 11 @12403 has 642 MA's), (26, 12505), (38, 12571), (44, 12592), (57, 12658), (74, 12739), (76, 12745), (84, 12763),

Gene: Druantia_17 Start: 12689, Stop: 13045, Start Num: 11
Candidate Starts for Druantia_17:
(Start: 11 @12689 has 642 MA's), (26, 12791), (38, 12839), (44, 12860), (57, 12926), (62, 12962), (74, 13007), (86, 13034),

Gene: Dublin_13 Start: 11767, Stop: 12141, Start Num: 10
Candidate Starts for Dublin_13:
(Start: 10 @11767 has 52 MA's), (13, 11791), (15, 11797), (38, 11935), (45, 11959), (57, 12022), (66, 12082), (74, 12103), (83, 12124), (84, 12127), (86, 12130),

Gene: DudeLittle_18 Start: 13470, Stop: 13847, Start Num: 11
Candidate Starts for DudeLittle_18:
(Start: 11 @13470 has 642 MA's), (15, 13500), (16, 13503), (18, 13533), (26, 13572), (48, 13674), (74, 13809), (84, 13833), (86, 13836),

Gene: Duplo_21 Start: 13313, Stop: 13687, Start Num: 11
Candidate Starts for Duplo_21:
(Start: 11 @13313 has 642 MA's), (14, 13340), (16, 13346), (18, 13376), (26, 13415), (32, 13451), (45, 13502), (48, 13514), (66, 13625), (74, 13649), (84, 13673), (86, 13676),

Gene: Dusty_36 Start: 15494, Stop: 15874, Start Num: 11
Candidate Starts for Dusty_36:
(Start: 11 @15494 has 642 MA's), (14, 15521), (45, 15677), (75, 15830),

Gene: DustyMartin_20 Start: 12519, Stop: 12893, Start Num: 11
Candidate Starts for DustyMartin_20:
(Start: 11 @12519 has 642 MA's), (20, 12588), (26, 12621), (44, 12708), (57, 12774), (74, 12855), (80, 12867), (86, 12882),

Gene: EZMoney23_22 Start: 15354, Stop: 15731, Start Num: 11
Candidate Starts for EZMoney23_22:
(Start: 11 @15354 has 642 MA's), (14, 15381), (15, 15384), (18, 15417), (26, 15456), (48, 15558), (70, 15684), (74, 15693), (83, 15714), (84, 15717), (86, 15720),

Gene: Eagle_16 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Eagle_16:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: EagleEye_20 Start: 13616, Stop: 13993, Start Num: 11
Candidate Starts for EagleEye_20:
(2, 13511), (Start: 11 @13616 has 642 MA's), (14, 13643), (18, 13679), (20, 13685), (26, 13718), (58, 13874), (74, 13955), (76, 13961), (83, 13976), (86, 13982),

Gene: Eaglepride_18 Start: 12459, Stop: 12833, Start Num: 11
Candidate Starts for Eaglepride_18:
(Start: 11 @12459 has 642 MA's), (26, 12561), (38, 12627), (40, 12633), (44, 12648), (45, 12651), (46, 12654), (57, 12714), (62, 12750), (74, 12795), (76, 12801), (80, 12807), (86, 12822),

Gene: Eapen_17 Start: 12687, Stop: 13043, Start Num: 11
Candidate Starts for Eapen_17:

(Start: 11 @12687 has 642 MA's), (26, 12789), (38, 12837), (44, 12858), (57, 12924), (62, 12960), (74, 13005), (86, 13032),

Gene: Ebony_18 Start: 13977, Stop: 14354, Start Num: 11
Candidate Starts for Ebony_18:
(Start: 11 @13977 has 642 MA's), (13, 14001), (18, 14040), (26, 14079), (28, 14085), (83, 14337), (84, 14340), (86, 14343),

Gene: Echild_18 Start: 13473, Stop: 13850, Start Num: 11
Candidate Starts for Echild_18:
(Start: 11 @13473 has 642 MA's), (15, 13503), (16, 13506), (18, 13536), (26, 13575), (45, 13665), (48, 13677), (74, 13812), (84, 13836), (86, 13839),

Gene: Edison31_17 Start: 12483, Stop: 12857, Start Num: 11
Candidate Starts for Edison31_17:
(Start: 11 @12483 has 642 MA's), (26, 12585), (38, 12651), (44, 12672), (57, 12738), (62, 12774), (74, 12819), (86, 12846),

Gene: EdogawaKiddo_19 Start: 14140, Stop: 14517, Start Num: 11
Candidate Starts for EdogawaKiddo_19:
(Start: 11 @14140 has 642 MA's), (26, 14242), (67, 14461), (74, 14479), (76, 14485),

Gene: Eidsmoe_19 Start: 14170, Stop: 14547, Start Num: 11
Candidate Starts for Eidsmoe_19:
(Start: 11 @14170 has 642 MA's), (26, 14272), (67, 14491), (74, 14509), (76, 14515),

Gene: ElTiger69_14 Start: 11638, Stop: 12012, Start Num: 10
Candidate Starts for ElTiger69_14:
(Start: 10 @11638 has 52 MA's), (13, 11662), (15, 11668), (45, 11830), (57, 11893), (65, 11950), (66, 11953), (74, 11974), (83, 11995), (84, 11998), (86, 12001),

Gene: Elephantoon_19 Start: 13761, Stop: 14138, Start Num: 11
Candidate Starts for Elephantoon_19:
(Start: 11 @13761 has 642 MA's), (26, 13863), (35, 13914), (67, 14082), (74, 14100), (76, 14106), (84, 14124), (86, 14127),

Gene: Elle_18 Start: 12204, Stop: 12581, Start Num: 11
Candidate Starts for Elle_18:
(Start: 11 @12204 has 642 MA's), (19, 12270), (20, 12273), (26, 12306), (32, 12342), (57, 12459), (74, 12543), (83, 12564), (84, 12567), (86, 12570),

Gene: EmyBug_19 Start: 14170, Stop: 14547, Start Num: 11
Candidate Starts for EmyBug_19:
(Start: 11 @14170 has 642 MA's), (26, 14272), (67, 14491), (74, 14509), (76, 14515),

Gene: Engineer_38 Start: 15711, Stop: 16091, Start Num: 11
Candidate Starts for Engineer_38:
(Start: 11 @15711 has 642 MA's), (14, 15738), (18, 15771), (75, 16047),

Gene: EpicPhail_19 Start: 12796, Stop: 13167, Start Num: 11
Candidate Starts for EpicPhail_19:
(Start: 11 @12796 has 642 MA's), (13, 12820), (22, 12880), (26, 12898), (57, 13048), (74, 13129), (76, 13135), (84, 13153), (86, 13156),

Gene: Epsocamisio_20 Start: 12490, Stop: 12867, Start Num: 11
Candidate Starts for Epsocamisio_20:
(Start: 11 @12490 has 642 MA's), (26, 12592), (45, 12682), (76, 12835), (84, 12853), (86, 12856),

Gene: Equemioh13_20 Start: 13864, Stop: 14241, Start Num: 11
Candidate Starts for Equemioh13_20:
(Start: 11 @13864 has 642 MA's), (14, 13891), (16, 13897), (18, 13927), (26, 13966), (31, 13996), (48, 14068), (74, 14203), (83, 14224), (84, 14227), (86, 14230),

Gene: EricB_21 Start: 13475, Stop: 13852, Start Num: 11
Candidate Starts for EricB_21:
(Start: 11 @13475 has 642 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (26, 13577), (74, 13814), (84, 13838), (86, 13841),

Gene: Erik_14 Start: 8915, Stop: 9295, Start Num: 11
Candidate Starts for Erik_14:
(Start: 11 @8915 has 642 MA's), (13, 8939), (21, 8987), (38, 9083), (48, 9119), (50, 9140), (57, 9170), (66, 9230), (72, 9248), (74, 9254), (82, 9275),

Gene: Eris_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Eris_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Eros_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Eros_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Espica_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for Espica_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: Et2Brutus_17 Start: 13931, Stop: 14308, Start Num: 11
Candidate Starts for Et2Brutus_17:
(Start: 11 @13931 has 642 MA's), (13, 13955), (18, 13994), (26, 14033), (28, 14039), (83, 14291), (84, 14294), (86, 14297),

Gene: EtoileNova_18 Start: 12887, Stop: 13261, Start Num: 11
Candidate Starts for EtoileNova_18:
(Start: 11 @12887 has 642 MA's), (13, 12911), (26, 12989), (38, 13055), (44, 13076), (57, 13142), (74, 13223), (84, 13247),

Gene: Eurydice_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for Eurydice_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: EvilGenius_20 Start: 13781, Stop: 14158, Start Num: 11
Candidate Starts for EvilGenius_20:

(Start: 11 @13781 has 642 MA's), (15, 13811), (16, 13814), (18, 13844), (26, 13883), (48, 13985), (74, 14120), (76, 14126), (84, 14144), (86, 14147),

Gene: Expelliarmus_13 Start: 11363, Stop: 11737, Start Num: 10
Candidate Starts for Expelliarmus_13:
(Start: 10 @11363 has 52 MA's), (38, 11531), (45, 11555), (48, 11567), (57, 11618), (65, 11675), (66, 11678), (74, 11699), (83, 11720), (84, 11723),

Gene: ExplosioNervosa_19 Start: 14173, Stop: 14550, Start Num: 11
Candidate Starts for ExplosioNervosa_19:
(Start: 11 @14173 has 642 MA's), (26, 14275), (67, 14494), (74, 14512), (76, 14518),

Gene: Fameo_18 Start: 13396, Stop: 13773, Start Num: 11
Candidate Starts for Fameo_18:
(Start: 11 @13396 has 642 MA's), (14, 13423), (16, 13429), (18, 13459), (26, 13498), (30, 13522), (48, 13600), (74, 13735), (84, 13759),

Gene: Farber_19 Start: 12789, Stop: 13160, Start Num: 11
Candidate Starts for Farber_19:
(Start: 11 @12789 has 642 MA's), (13, 12813), (22, 12873), (26, 12891), (57, 13041), (74, 13122), (76, 13128), (84, 13146), (86, 13149),

Gene: FatCactus_16 Start: 11529, Stop: 11903, Start Num: 11
Candidate Starts for FatCactus_16:
(Start: 11 @11529 has 642 MA's), (26, 11631), (35, 11682), (57, 11784), (74, 11865), (84, 11889), (86, 11892),

Gene: Fayely_19 Start: 14173, Stop: 14550, Start Num: 11
Candidate Starts for Fayely_19:
(Start: 11 @14173 has 642 MA's), (26, 14275), (67, 14494), (74, 14512), (76, 14518),

Gene: Fernando_19 Start: 12794, Stop: 13165, Start Num: 11
Candidate Starts for Fernando_19:
(Start: 11 @12794 has 642 MA's), (13, 12818), (22, 12878), (26, 12896), (57, 13046), (74, 13127), (76, 13133), (84, 13151), (86, 13154),

Gene: Fibonacci_18 Start: 13931, Stop: 14308, Start Num: 11
Candidate Starts for Fibonacci_18:
(Start: 11 @13931 has 642 MA's), (13, 13955), (18, 13994), (26, 14033), (28, 14039), (83, 14291), (84, 14294), (86, 14297),

Gene: FiringLine_18 Start: 13318, Stop: 13695, Start Num: 11
Candidate Starts for FiringLine_18:
(Start: 11 @13318 has 642 MA's), (15, 13348), (16, 13351), (18, 13381), (26, 13420), (48, 13522), (74, 13657), (76, 13663), (84, 13681),

Gene: First_0018 Start: 13386, Stop: 13763, Start Num: 11
Candidate Starts for First_0018:
(Start: 11 @13386 has 642 MA's), (15, 13416), (16, 13419), (18, 13449), (26, 13488), (48, 13590), (74, 13725), (84, 13749), (86, 13752),

Gene: Flare16_18 Start: 13422, Stop: 13799, Start Num: 11
Candidate Starts for Flare16_18:

(Start: 11 @13422 has 642 MA's), (14, 13449), (16, 13455), (18, 13485), (26, 13524), (31, 13554), (48, 13626), (74, 13761), (83, 13782), (84, 13785), (86, 13788),

Gene: Flaverint_18 Start: 13928, Stop: 14305, Start Num: 11
Candidate Starts for Flaverint_18:
(Start: 11 @13928 has 642 MA's), (13, 13952), (18, 13991), (26, 14030), (28, 14036), (83, 14288), (84, 14291), (86, 14294),

Gene: Florean_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for Florean_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: Florence1_14 Start: 11588, Stop: 11962, Start Num: 10
Candidate Starts for Florence1_14:
(Start: 10 @11588 has 52 MA's), (13, 11612), (15, 11618), (38, 11756), (45, 11780), (57, 11843), (66, 11903), (74, 11924), (83, 11945), (84, 11948), (86, 11951),

Gene: Florence4_15 Start: 11588, Stop: 11962, Start Num: 10
Candidate Starts for Florence4_15:
(Start: 10 @11588 has 52 MA's), (13, 11612), (15, 11618), (38, 11756), (45, 11780), (57, 11843), (66, 11903), (74, 11924), (83, 11945), (84, 11948), (86, 11951),

Gene: Flux_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Flux_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: FlyCatcher_21 Start: 14336, Stop: 14710, Start Num: 11
Candidate Starts for FlyCatcher_21:
(Start: 11 @14336 has 642 MA's), (26, 14438), (38, 14504), (40, 14510), (44, 14525), (57, 14591), (62, 14627), (74, 14672), (76, 14678), (84, 14696),

Gene: ForGetIt_14 Start: 11650, Stop: 12024, Start Num: 10
Candidate Starts for ForGetIt_14:
(Start: 10 @11650 has 52 MA's), (13, 11674), (15, 11680), (38, 11818), (45, 11842), (57, 11905), (66, 11965), (74, 11986), (83, 12007), (84, 12010), (86, 12013),

Gene: ForesterFrank_20 Start: 14893, Stop: 15270, Start Num: 11
Candidate Starts for ForesterFrank_20:
(Start: 11 @14893 has 642 MA's), (14, 14920), (15, 14923), (18, 14956), (26, 14995), (32, 15031), (48, 15097), (70, 15223), (74, 15232), (83, 15253), (84, 15256), (86, 15259),

Gene: Fred313_17 Start: 12061, Stop: 12435, Start Num: 11
Candidate Starts for Fred313_17:
(Start: 11 @12061 has 642 MA's), (26, 12163), (38, 12229), (44, 12250), (57, 12316), (74, 12397), (84, 12421),

Gene: Funston_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Funston_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: GAL1_11 Start: 8169, Stop: 8561, Start Num: 8
Candidate Starts for GAL1_11:
(Start: 8 @8169 has 1 MA's), (21, 8238), (24, 8259), (28, 8274), (29, 8283), (30, 8292), (40, 8337), (45, 8355), (46, 8358), (51, 8403), (52, 8406), (54, 8415), (66, 8490), (69, 8502), (79, 8529), (81, 8535), (87, 8550),

Gene: Gadost_17 Start: 12692, Stop: 13048, Start Num: 11
Candidate Starts for Gadost_17:
(Start: 11 @12692 has 642 MA's), (26, 12794), (38, 12842), (44, 12863), (57, 12929), (62, 12965), (74, 13010), (86, 13037),

Gene: Gail_17 Start: 12483, Stop: 12860, Start Num: 11
Candidate Starts for Gail_17:
(Start: 11 @12483 has 642 MA's), (16, 12516), (17, 12543), (18, 12546), (26, 12585), (50, 12708), (84, 12846), (86, 12849),

Gene: Garak_22 Start: 13480, Stop: 13857, Start Num: 11
Candidate Starts for Garak_22:
(Start: 11 @13480 has 642 MA's), (14, 13507), (16, 13513), (17, 13540), (18, 13543), (26, 13582), (74, 13819), (84, 13843), (86, 13846),

Gene: GaugeLDP_20 Start: 14689, Stop: 15066, Start Num: 11
Candidate Starts for GaugeLDP_20:
(Start: 11 @14689 has 642 MA's), (14, 14716), (16, 14722), (18, 14752), (26, 14791), (61, 14977), (70, 15019), (74, 15028), (83, 15049), (84, 15052), (86, 15055),

Gene: Geeche_36 Start: 15585, Stop: 15965, Start Num: 11
Candidate Starts for Geeche_36:
(Start: 11 @15585 has 642 MA's), (14, 15612), (18, 15645), (75, 15921),

Gene: Gemma_19 Start: 12870, Stop: 13241, Start Num: 11
Candidate Starts for Gemma_19:
(Start: 11 @12870 has 642 MA's), (13, 12894), (22, 12954), (26, 12972), (57, 13122), (74, 13203), (76, 13209), (84, 13227), (86, 13230),

Gene: George_13 Start: 11800, Stop: 12174, Start Num: 10
Candidate Starts for George_13:
(Start: 10 @11800 has 52 MA's), (13, 11824), (15, 11830), (38, 11968), (45, 11992), (57, 12055), (66, 12115), (74, 12136), (83, 12157), (84, 12160), (86, 12163),

Gene: Georgie2_19 Start: 13319, Stop: 13696, Start Num: 11
Candidate Starts for Georgie2_19:
(Start: 11 @13319 has 642 MA's), (15, 13349), (16, 13352), (18, 13382), (26, 13421), (48, 13523), (74, 13658), (76, 13664), (84, 13682),

Gene: Ghoulboy_14 Start: 11877, Stop: 12251, Start Num: 10
Candidate Starts for Ghoulboy_14:
(Start: 10 @11877 has 52 MA's), (13, 11901), (15, 11907), (45, 12069), (57, 12132), (60, 12162), (66, 12192), (74, 12213), (83, 12234), (84, 12237), (86, 12240),

Gene: Gilberta_18 Start: 13925, Stop: 14302, Start Num: 11
Candidate Starts for Gilberta_18:

(Start: 11 @13925 has 642 MA's), (13, 13949), (18, 13988), (26, 14027), (28, 14033), (83, 14285), (84, 14288), (86, 14291),

Gene: GingkoMaracino_19 Start: 12682, Stop: 13053, Start Num: 11
Candidate Starts for GingkoMaracino_19:
(Start: 11 @12682 has 642 MA's), (13, 12706), (22, 12766), (26, 12784), (57, 12934), (74, 13015), (76, 13021), (84, 13039), (86, 13042),

Gene: Giroux_18 Start: 12343, Stop: 12717, Start Num: 11
Candidate Starts for Giroux_18:
(Start: 11 @12343 has 642 MA's), (26, 12445), (38, 12511), (44, 12532), (57, 12598), (74, 12679), (76, 12685), (84, 12703),

Gene: Gladiator_21 Start: 13452, Stop: 13829, Start Num: 11
Candidate Starts for Gladiator_21:
(Start: 11 @13452 has 642 MA's), (14, 13479), (17, 13512), (18, 13515), (26, 13554), (53, 13695), (74, 13791), (84, 13815), (86, 13818),

Gene: Gollum_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for Gollum_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: Goose_17 Start: 12450, Stop: 12824, Start Num: 11
Candidate Starts for Goose_17:
(Start: 11 @12450 has 642 MA's), (26, 12552), (38, 12618), (44, 12639), (57, 12705), (62, 12741), (74, 12786), (76, 12792), (86, 12813),

Gene: Goose1D_17 Start: 11598, Stop: 11972, Start Num: 11
Candidate Starts for Goose1D_17:
(Start: 11 @11598 has 642 MA's), (26, 11700), (38, 11766), (44, 11787), (57, 11853), (74, 11934), (76, 11940), (84, 11958),

Gene: Goose1X_17 Start: 11670, Stop: 12044, Start Num: 11
Candidate Starts for Goose1X_17:
(Start: 11 @11670 has 642 MA's), (26, 11772), (38, 11838), (44, 11859), (57, 11925), (74, 12006), (76, 12012), (84, 12030),

Gene: Gratitude_20 Start: 13864, Stop: 14241, Start Num: 11
Candidate Starts for Gratitude_20:
(Start: 11 @13864 has 642 MA's), (14, 13891), (16, 13897), (18, 13927), (26, 13966), (31, 13996), (48, 14068), (74, 14203), (83, 14224), (84, 14227), (86, 14230),

Gene: GreedyLawyer_21 Start: 13484, Stop: 13861, Start Num: 11
Candidate Starts for GreedyLawyer_21:
(Start: 11 @13484 has 642 MA's), (14, 13511), (16, 13517), (17, 13544), (18, 13547), (26, 13586), (74, 13823), (84, 13847), (86, 13850),

Gene: Grif_19 Start: 12879, Stop: 13250, Start Num: 11
Candidate Starts for Grif_19:
(Start: 11 @12879 has 642 MA's), (13, 12903), (22, 12963), (26, 12981), (57, 13131), (74, 13212), (76, 13218), (84, 13236), (86, 13239),

Gene: Groundhog_13 Start: 11364, Stop: 11738, Start Num: 10
Candidate Starts for Groundhog_13:
(Start: 10 @11364 has 52 MA's), (38, 11532), (45, 11556), (48, 11568), (57, 11619), (65, 11676), (66, 11679), (74, 11700), (83, 11721), (84, 11724),

Gene: Groupthink_20 Start: 12870, Stop: 13241, Start Num: 11
Candidate Starts for Groupthink_20:
(Start: 11 @12870 has 642 MA's), (13, 12894), (22, 12954), (26, 12972), (57, 13122), (74, 13203), (76, 13209), (84, 13227), (86, 13230),

Gene: Grub_19 Start: 12788, Stop: 13159, Start Num: 11
Candidate Starts for Grub_19:
(Start: 11 @12788 has 642 MA's), (13, 12812), (22, 12872), (26, 12890), (57, 13040), (74, 13121), (76, 13127), (84, 13145), (86, 13148),

Gene: Grum1_19 Start: 12789, Stop: 13160, Start Num: 11
Candidate Starts for Grum1_19:
(Start: 11 @12789 has 642 MA's), (13, 12813), (22, 12873), (26, 12891), (57, 13041), (74, 13122), (76, 13128), (84, 13146), (86, 13149),

Gene: Gruunaga_21 Start: 13452, Stop: 13829, Start Num: 11
Candidate Starts for Gruunaga_21:
(Start: 11 @13452 has 642 MA's), (14, 13479), (17, 13512), (18, 13515), (26, 13554), (53, 13695), (74, 13791), (84, 13815), (86, 13818),

Gene: GtownJaz_19 Start: 12797, Stop: 13168, Start Num: 11
Candidate Starts for GtownJaz_19:
(Start: 11 @12797 has 642 MA's), (13, 12821), (22, 12881), (26, 12899), (57, 13049), (74, 13130), (76, 13136), (84, 13154), (86, 13157),

Gene: Gwendoluna_19 Start: 14322, Stop: 14771, Start Num: 11
Candidate Starts for Gwendoluna_19:
(Start: 11 @14322 has 642 MA's), (13, 14346), (74, 14658), (88, 14733),

Gene: Gwennie_19 Start: 12796, Stop: 13167, Start Num: 11
Candidate Starts for Gwennie_19:
(Start: 11 @12796 has 642 MA's), (13, 12820), (22, 12880), (26, 12898), (57, 13048), (74, 13129), (76, 13135), (84, 13153), (86, 13156),

Gene: HINdeR_17 Start: 14142, Stop: 14516, Start Num: 11
Candidate Starts for HINdeR_17:
(Start: 11 @14142 has 642 MA's), (26, 14244), (38, 14310), (39, 14313), (44, 14331), (45, 14334), (46, 14337), (57, 14397), (59, 14412), (62, 14433), (74, 14478), (84, 14502), (86, 14505),

Gene: HamSlice_16 Start: 12686, Stop: 13042, Start Num: 11
Candidate Starts for HamSlice_16:
(Start: 11 @12686 has 642 MA's), (26, 12788), (38, 12836), (44, 12857), (57, 12923), (62, 12959), (74, 13004), (86, 13031),

Gene: Hammer_21 Start: 13467, Stop: 13844, Start Num: 11
Candidate Starts for Hammer_21:
(Start: 11 @13467 has 642 MA's), (14, 13494), (17, 13527), (18, 13530), (26, 13569), (53, 13710), (74, 13806), (84, 13830), (86, 13833),

Gene: Hanray_19 Start: 14144, Stop: 14521, Start Num: 11
Candidate Starts for Hanray_19:
(Start: 11 @14144 has 642 MA's), (26, 14246), (67, 14465), (74, 14483), (76, 14489),

Gene: Happiness_17 Start: 12694, Stop: 13050, Start Num: 11
Candidate Starts for Happiness_17:
(Start: 11 @12694 has 642 MA's), (26, 12796), (38, 12844), (44, 12865), (57, 12931), (62, 12967), (74, 13012), (86, 13039),

Gene: Harlequin_14 Start: 8860, Stop: 9240, Start Num: 11
Candidate Starts for Harlequin_14:
(Start: 11 @8860 has 642 MA's), (13, 8884), (20, 8929), (21, 8932), (33, 9001), (38, 9028), (57, 9115), (72, 9193), (74, 9199), (82, 9220),

Gene: HarryHoudini_20 Start: 13879, Stop: 14256, Start Num: 11
Candidate Starts for HarryHoudini_20:
(Start: 11 @13879 has 642 MA's), (14, 13906), (16, 13912), (18, 13942), (26, 13981), (31, 14011), (48, 14083), (74, 14218), (83, 14239), (84, 14242), (86, 14245),

Gene: HashRod_20 Start: 12880, Stop: 13251, Start Num: 11
Candidate Starts for HashRod_20:
(Start: 11 @12880 has 642 MA's), (13, 12904), (22, 12964), (26, 12982), (57, 13132), (74, 13213), (76, 13219), (84, 13237), (86, 13240),

Gene: HaveUMetTed_20 Start: 12864, Stop: 13235, Start Num: 11
Candidate Starts for HaveUMetTed_20:
(Start: 11 @12864 has 642 MA's), (13, 12888), (22, 12948), (26, 12966), (57, 13116), (74, 13197), (76, 13203), (84, 13221), (86, 13224),

Gene: Heathen_17 Start: 12144, Stop: 12518, Start Num: 11
Candidate Starts for Heathen_17:
(Start: 11 @12144 has 642 MA's), (26, 12246), (38, 12312), (44, 12333), (57, 12399), (74, 12480), (76, 12486), (84, 12504),

Gene: Heffalump_20 Start: 15198, Stop: 15575, Start Num: 11
Candidate Starts for Heffalump_20:
(Start: 11 @15198 has 642 MA's), (14, 15225), (16, 15231), (18, 15261), (26, 15300), (30, 15324), (48, 15402), (74, 15537), (76, 15543), (84, 15561),

Gene: HelDan_17 Start: 12396, Stop: 12770, Start Num: 11
Candidate Starts for HelDan_17:
(Start: 11 @12396 has 642 MA's), (26, 12498), (38, 12564), (44, 12585), (57, 12651), (74, 12732), (76, 12738), (84, 12756),

Gene: Heliosoles_19 Start: 12870, Stop: 13241, Start Num: 11
Candidate Starts for Heliosoles_19:
(Start: 11 @12870 has 642 MA's), (13, 12894), (22, 12954), (26, 12972), (57, 13122), (74, 13203), (76, 13209), (84, 13227), (86, 13230),

Gene: Helmet_21 Start: 13480, Stop: 13857, Start Num: 11
Candidate Starts for Helmet_21:

(Start: 11 @13480 has 642 MA's), (14, 13507), (16, 13513), (17, 13540), (18, 13543), (26, 13582), (74, 13819), (84, 13843), (86, 13846),

Gene: Herbertwm_15 Start: 12076, Stop: 12453, Start Num: 11
Candidate Starts for Herbertwm_15:
(6, 12052), (Start: 11 @12076 has 642 MA's), (14, 12103), (17, 12136), (18, 12139), (26, 12178), (48, 12280), (50, 12301), (56, 12325), (74, 12415), (76, 12421), (84, 12439),

Gene: Hercules11_19 Start: 12803, Stop: 13174, Start Num: 11
Candidate Starts for Hercules11_19:
(Start: 11 @12803 has 642 MA's), (13, 12827), (22, 12887), (26, 12905), (57, 13055), (74, 13136), (76, 13142), (84, 13160), (86, 13163),

Gene: Hexamo_21 Start: 13434, Stop: 13811, Start Num: 11
Candidate Starts for Hexamo_21:
(Start: 11 @13434 has 642 MA's), (14, 13461), (16, 13467), (17, 13494), (18, 13497), (26, 13536), (53, 13677), (74, 13773), (84, 13797), (86, 13800),

Gene: HippoHollow_19 Start: 15138, Stop: 15515, Start Num: 11
Candidate Starts for HippoHollow_19:
(Start: 11 @15138 has 642 MA's), (14, 15165), (16, 15171), (18, 15201), (26, 15240), (32, 15276), (48, 15342), (61, 15426), (74, 15477), (76, 15483), (84, 15501), (86, 15504),

Gene: Hiro_14 Start: 8860, Stop: 9240, Start Num: 11
Candidate Starts for Hiro_14:
(Start: 11 @8860 has 642 MA's), (13, 8884), (20, 8929), (21, 8932), (33, 9001), (38, 9028), (57, 9115), (72, 9193), (74, 9199), (82, 9220),

Gene: Holex_19 Start: 14144, Stop: 14521, Start Num: 11
Candidate Starts for Holex_19:
(Start: 11 @14144 has 642 MA's), (26, 14246), (67, 14465), (74, 14483), (76, 14489),

Gene: Holli_17 Start: 12478, Stop: 12834, Start Num: 11
Candidate Starts for Holli_17:
(Start: 11 @12478 has 642 MA's), (26, 12580), (38, 12628), (44, 12649), (57, 12715), (62, 12751), (74, 12796), (86, 12823),

Gene: Hookmount_18 Start: 12884, Stop: 13258, Start Num: 11
Candidate Starts for Hookmount_18:
(Start: 11 @12884 has 642 MA's), (13, 12908), (26, 12986), (38, 13052), (44, 13073), (57, 13139), (74, 13220), (84, 13244),

Gene: Hoot_21 Start: 13463, Stop: 13840, Start Num: 11
Candidate Starts for Hoot_21:
(Start: 11 @13463 has 642 MA's), (14, 13490), (16, 13496), (17, 13523), (18, 13526), (26, 13565), (74, 13802), (84, 13826), (86, 13829),

Gene: HortumSL17_19 Start: 14140, Stop: 14517, Start Num: 11
Candidate Starts for HortumSL17_19:
(Start: 11 @14140 has 642 MA's), (26, 14242), (67, 14461), (74, 14479), (76, 14485),

Gene: Houdini22_17 Start: 12692, Stop: 13048, Start Num: 11
Candidate Starts for Houdini22_17:

(Start: 11 @12692 has 642 MA's), (26, 12794), (38, 12842), (44, 12863), (57, 12929), (62, 12965), (74, 13010), (86, 13037),

Gene: HuhtaEnerson15_14 Start: 11800, Stop: 12174, Start Num: 10
Candidate Starts for HuhtaEnerson15_14:
(Start: 10 @11800 has 52 MA's), (13, 11824), (15, 11830), (38, 11968), (45, 11992), (57, 12055), (66, 12115), (74, 12136), (83, 12157), (84, 12160), (86, 12163),

Gene: Hum25_8 Start: 6105, Stop: 6491, Start Num: 11
Candidate Starts for Hum25_8:
(Start: 11 @6105 has 642 MA's), (15, 6135), (41, 6282), (49, 6327), (62, 6411),

Gene: Hutc2_18 Start: 13931, Stop: 14308, Start Num: 11
Candidate Starts for Hutc2_18:
(Start: 11 @13931 has 642 MA's), (13, 13955), (18, 13994), (26, 14033), (28, 14039), (83, 14291), (84, 14294), (86, 14297),

Gene: Huxley_17 Start: 12752, Stop: 13108, Start Num: 11
Candidate Starts for Huxley_17:
(Start: 11 @12752 has 642 MA's), (26, 12854), (38, 12902), (44, 12923), (56, 12983), (57, 12989), (62, 13025), (74, 13070), (86, 13097),

Gene: ICleared_17 Start: 12686, Stop: 13042, Start Num: 11
Candidate Starts for ICleared_17:
(Start: 11 @12686 has 642 MA's), (26, 12788), (38, 12836), (44, 12857), (57, 12923), (62, 12959), (74, 13004), (86, 13031),

Gene: Iceman_18 Start: 12977, Stop: 13333, Start Num: 11
Candidate Starts for Iceman_18:
(Start: 11 @12977 has 642 MA's), (26, 13079), (38, 13127), (44, 13148), (57, 13214), (62, 13250), (74, 13295), (86, 13322),

Gene: Idleandcovert_17 Start: 12343, Stop: 12717, Start Num: 11
Candidate Starts for Idleandcovert_17:
(Start: 11 @12343 has 642 MA's), (26, 12445), (38, 12511), (44, 12532), (57, 12598), (74, 12679), (76, 12685), (84, 12703),

Gene: Imbriano_21 Start: 13485, Stop: 13862, Start Num: 11
Candidate Starts for Imbriano_21:
(Start: 11 @13485 has 642 MA's), (14, 13512), (16, 13518), (17, 13545), (18, 13548), (26, 13587), (74, 13824), (84, 13848), (86, 13851),

Gene: Indra_21 Start: 13479, Stop: 13856, Start Num: 11
Candidate Starts for Indra_21:
(Start: 11 @13479 has 642 MA's), (14, 13506), (16, 13512), (17, 13539), (18, 13542), (26, 13581), (53, 13722), (74, 13818), (84, 13842), (86, 13845),

Gene: Insomnia_18 Start: 13980, Stop: 14357, Start Num: 11
Candidate Starts for Insomnia_18:
(Start: 11 @13980 has 642 MA's), (13, 14004), (18, 14043), (26, 14082), (28, 14088), (83, 14340), (84, 14343), (86, 14346),

Gene: Iracema64_18 Start: 13000, Stop: 13356, Start Num: 11

Candidate Starts for Iracema64_18:
(Start: 11 @13000 has 642 MA's), (26, 13102), (38, 13150), (44, 13171), (57, 13237), (62, 13273), (74, 13318), (86, 13345),

Gene: IronMan_20 Start: 15064, Stop: 15441, Start Num: 11
Candidate Starts for IronMan_20:
(Start: 11 @15064 has 642 MA's), (17, 15124), (18, 15127), (26, 15166), (48, 15268), (63, 15358), (66, 15379), (74, 15403),

Gene: Isca_17 Start: 12231, Stop: 12605, Start Num: 11
Candidate Starts for Isca_17:
(Start: 11 @12231 has 642 MA's), (26, 12333), (38, 12399), (44, 12420), (57, 12486), (74, 12567), (76, 12573), (84, 12591),

Gene: Isiphiwo_21 Start: 13475, Stop: 13852, Start Num: 11
Candidate Starts for Isiphiwo_21:
(Start: 11 @13475 has 642 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (26, 13577), (74, 13814), (84, 13838), (86, 13841),

Gene: Iwokeuplikedis_19 Start: 13349, Stop: 13726, Start Num: 11
Candidate Starts for Iwokeuplikedis_19:
(Start: 11 @13349 has 642 MA's), (14, 13376), (16, 13382), (18, 13412), (26, 13451), (31, 13481), (48, 13553), (74, 13688), (84, 13712), (86, 13715),

Gene: JF2_17 Start: 11996, Stop: 12370, Start Num: 11
Candidate Starts for JF2_17:
(Start: 11 @11996 has 642 MA's), (26, 12098), (38, 12164), (44, 12185), (57, 12251), (74, 12332), (76, 12338), (84, 12356),

Gene: JF4_17 Start: 11996, Stop: 12370, Start Num: 11
Candidate Starts for JF4_17:
(Start: 11 @11996 has 642 MA's), (26, 12098), (38, 12164), (44, 12185), (57, 12251), (74, 12332), (76, 12338), (84, 12356),

Gene: JHC117_19 Start: 12794, Stop: 13165, Start Num: 11
Candidate Starts for JHC117_19:
(Start: 11 @12794 has 642 MA's), (13, 12818), (22, 12878), (26, 12896), (57, 13046), (74, 13127), (76, 13133), (84, 13151), (86, 13154),

Gene: JSwag_20 Start: 12476, Stop: 12853, Start Num: 11
Candidate Starts for JSwag_20:
(Start: 11 @12476 has 642 MA's), (26, 12578), (45, 12668), (76, 12821), (84, 12839), (86, 12842),

Gene: Jaan_21 Start: 15462, Stop: 15839, Start Num: 11
Candidate Starts for Jaan_21:
(Start: 11 @15462 has 642 MA's), (17, 15522), (18, 15525), (26, 15564), (48, 15666), (63, 15756), (66, 15777), (74, 15801),

Gene: Jabiru_14 Start: 11689, Stop: 12063, Start Num: 10
Candidate Starts for Jabiru_14:
(Start: 10 @11689 has 52 MA's), (13, 11713), (15, 11719), (45, 11881), (57, 11944), (66, 12004), (74, 12025), (83, 12046), (84, 12049), (86, 12052),

Gene: Jabith_18 Start: 13980, Stop: 14357, Start Num: 11
Candidate Starts for Jabith_18:
(Start: 11 @13980 has 642 MA's), (13, 14004), (18, 14043), (26, 14082), (28, 14088), (83, 14340), (84, 14343), (86, 14346),

Gene: Jaykayelowell_17 Start: 12684, Stop: 13040, Start Num: 11
Candidate Starts for Jaykayelowell_17:
(Start: 11 @12684 has 642 MA's), (26, 12786), (38, 12834), (44, 12855), (57, 12921), (62, 12957), (74, 13002), (86, 13029),

Gene: Jeeves_17 Start: 12526, Stop: 12903, Start Num: 11
Candidate Starts for Jeeves_17:
(Start: 11 @12526 has 642 MA's), (16, 12559), (18, 12589), (26, 12628), (50, 12751), (83, 12886), (84, 12889), (86, 12892),

Gene: Jeffabunny_21 Start: 13486, Stop: 13863, Start Num: 11
Candidate Starts for Jeffabunny_21:
(Start: 11 @13486 has 642 MA's), (14, 13513), (17, 13546), (18, 13549), (26, 13588), (53, 13729), (74, 13825), (84, 13849), (86, 13852),

Gene: JenCasNa_19 Start: 12794, Stop: 13165, Start Num: 11
Candidate Starts for JenCasNa_19:
(Start: 11 @12794 has 642 MA's), (13, 12818), (22, 12878), (26, 12896), (57, 13046), (74, 13127), (76, 13133), (84, 13151), (86, 13154),

Gene: JeppNRM_20 Start: 12868, Stop: 13239, Start Num: 11
Candidate Starts for JeppNRM_20:
(Start: 11 @12868 has 642 MA's), (13, 12892), (22, 12952), (26, 12970), (57, 13120), (74, 13201), (76, 13207), (84, 13225), (86, 13228),

Gene: Jerm_20 Start: 13796, Stop: 14173, Start Num: 11
Candidate Starts for Jerm_20:
(Start: 11 @13796 has 642 MA's), (15, 13826), (16, 13829), (18, 13859), (26, 13898), (61, 14084), (74, 14135), (84, 14159), (86, 14162),

Gene: Jester_14 Start: 8860, Stop: 9240, Start Num: 11
Candidate Starts for Jester_14:
(Start: 11 @8860 has 642 MA's), (13, 8884), (20, 8929), (21, 8932), (33, 9001), (38, 9028), (57, 9115), (72, 9193), (74, 9199), (82, 9220),

Gene: JetBlade_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for JetBlade_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: JewelBug_21 Start: 13487, Stop: 13864, Start Num: 11
Candidate Starts for JewelBug_21:
(Start: 11 @13487 has 642 MA's), (14, 13514), (16, 13520), (17, 13547), (18, 13550), (26, 13589), (74, 13826), (84, 13850), (86, 13853),

Gene: Jiawan_19 Start: 14176, Stop: 14553, Start Num: 11
Candidate Starts for Jiawan_19:
(Start: 11 @14176 has 642 MA's), (26, 14278), (67, 14497), (74, 14515), (76, 14521),

Gene: Jobu08_19 Start: 12863, Stop: 13234, Start Num: 11
Candidate Starts for Jobu08_19:
(Start: 11 @12863 has 642 MA's), (13, 12887), (22, 12947), (26, 12965), (57, 13115), (74, 13196), (76, 13202), (84, 13220), (86, 13223),

Gene: JonJames_36 Start: 19608, Stop: 19994, Start Num: 11
Candidate Starts for JonJames_36:
(Start: 11 @19608 has 642 MA's), (25, 19704), (42, 19779), (52, 19836), (71, 19935), (85, 19974),

Gene: JoongJeon_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for JoongJeon_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Jordennis_21 Start: 13475, Stop: 13852, Start Num: 11
Candidate Starts for Jordennis_21:
(Start: 11 @13475 has 642 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (26, 13577), (74, 13814), (84, 13838), (86, 13841),

Gene: Joselito_18 Start: 13928, Stop: 14305, Start Num: 11
Candidate Starts for Joselito_18:
(Start: 11 @13928 has 642 MA's), (13, 13952), (18, 13991), (26, 14030), (28, 14036), (83, 14288), (84, 14291), (86, 14294),

Gene: JoshKayV_20 Start: 13800, Stop: 14177, Start Num: 11
Candidate Starts for JoshKayV_20:
(Start: 11 @13800 has 642 MA's), (15, 13830), (16, 13833), (18, 13863), (26, 13902), (74, 14139), (76, 14145), (84, 14163), (86, 14166),

Gene: Journey13_16 Start: 12509, Stop: 12886, Start Num: 11
Candidate Starts for Journey13_16:
(Start: 11 @12509 has 642 MA's), (14, 12536), (16, 12542), (17, 12569), (18, 12572), (26, 12611), (48, 12713), (74, 12848), (83, 12869), (84, 12872), (86, 12875),

Gene: Jovo_14 Start: 11909, Stop: 12283, Start Num: 10
Candidate Starts for Jovo_14:
(Start: 10 @11909 has 52 MA's), (13, 11933), (15, 11939), (45, 12101), (57, 12164), (60, 12194), (66, 12224), (74, 12245), (83, 12266), (84, 12269), (86, 12272),

Gene: Jsquared_17 Start: 12210, Stop: 12587, Start Num: 11
Candidate Starts for Jsquared_17:
(Start: 11 @12210 has 642 MA's), (14, 12237), (16, 12243), (17, 12270), (18, 12273), (26, 12312), (48, 12414), (74, 12549), (83, 12570), (84, 12573), (86, 12576),

Gene: Junimo_16 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Junimo_16:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: KADY_20 Start: 12880, Stop: 13251, Start Num: 11
Candidate Starts for KADY_20:

(Start: 11 @12880 has 642 MA's), (13, 12904), (22, 12964), (26, 12982), (57, 13132), (74, 13213), (76, 13219), (84, 13237), (86, 13240),

Gene: KFPoly_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for KFPoly_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Kachowdy_17 Start: 12396, Stop: 12770, Start Num: 11
Candidate Starts for Kachowdy_17:
(Start: 11 @12396 has 642 MA's), (26, 12498), (38, 12564), (44, 12585), (57, 12651), (74, 12732), (76, 12738), (84, 12756),

Gene: Kalb97_20 Start: 12868, Stop: 13239, Start Num: 11
Candidate Starts for Kalb97_20:
(Start: 11 @12868 has 642 MA's), (13, 12892), (22, 12952), (26, 12970), (57, 13120), (74, 13201), (76, 13207), (84, 13225), (86, 13228),

Gene: Kalnoky_20 Start: 12870, Stop: 13241, Start Num: 11
Candidate Starts for Kalnoky_20:
(Start: 11 @12870 has 642 MA's), (13, 12894), (22, 12954), (26, 12972), (57, 13122), (74, 13203), (76, 13209), (84, 13227), (86, 13230),

Gene: Kalpine_21 Start: 15159, Stop: 15536, Start Num: 11
Candidate Starts for Kalpine_21:
(Start: 11 @15159 has 642 MA's), (15, 15189), (18, 15222), (26, 15261), (32, 15297), (48, 15363), (74, 15498), (83, 15519), (84, 15522), (86, 15525),

Gene: Kampy_17 Start: 12686, Stop: 13042, Start Num: 11
Candidate Starts for Kampy_17:
(Start: 11 @12686 has 642 MA's), (26, 12788), (38, 12836), (44, 12857), (57, 12923), (62, 12959), (74, 13004), (86, 13031),

Gene: Katalie136_17 Start: 12690, Stop: 13046, Start Num: 11
Candidate Starts for Katalie136_17:
(Start: 11 @12690 has 642 MA's), (26, 12792), (38, 12840), (44, 12861), (57, 12927), (62, 12963), (80, 13020), (86, 13035),

Gene: KatherineG_20 Start: 12612, Stop: 12989, Start Num: 11
Candidate Starts for KatherineG_20:
(Start: 11 @12612 has 642 MA's), (26, 12714), (45, 12804), (76, 12957), (84, 12975), (86, 12978),

Gene: Kazan_21 Start: 13490, Stop: 13867, Start Num: 11
Candidate Starts for Kazan_21:
(Start: 11 @13490 has 642 MA's), (14, 13517), (16, 13523), (17, 13550), (18, 13553), (26, 13592), (74, 13829), (84, 13853), (86, 13856),

Gene: KekoraPapaka_16 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for KekoraPapaka_16:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Kerberos_21 Start: 13272, Stop: 13646, Start Num: 11

Candidate Starts for Kerberos_21:
(Start: 11 @13272 has 642 MA's), (14, 13299), (16, 13305), (18, 13335), (26, 13374), (32, 13410), (45, 13461), (48, 13473), (66, 13584), (74, 13608), (84, 13632), (86, 13635),

Gene: Keziacharles14_17 Start: 12278, Stop: 12655, Start Num: 11
Candidate Starts for Keziacharles14_17:
(Start: 11 @12278 has 642 MA's), (26, 12380), (31, 12410), (61, 12566), (67, 12599), (74, 12617), (76, 12623), (84, 12641), (86, 12644),

Gene: Kimba_18 Start: 13980, Stop: 14357, Start Num: 11
Candidate Starts for Kimba_18:
(Start: 11 @13980 has 642 MA's), (13, 14004), (18, 14043), (26, 14082), (28, 14088), (83, 14340), (84, 14343), (86, 14346),

Gene: Kimona_14 Start: 10155, Stop: 10529, Start Num: 11
Candidate Starts for Kimona_14:
(Start: 11 @10155 has 642 MA's), (36, 10314), (57, 10410), (76, 10497), (86, 10518),

Gene: KingCyrus_20 Start: 13771, Stop: 14148, Start Num: 11
Candidate Starts for KingCyrus_20:
(Start: 11 @13771 has 642 MA's), (15, 13801), (16, 13804), (18, 13834), (26, 13873), (48, 13975), (74, 14110), (76, 14116), (84, 14134), (86, 14137),

Gene: Kingmustik0402_17 Start: 12680, Stop: 13036, Start Num: 11
Candidate Starts for Kingmustik0402_17:
(Start: 11 @12680 has 642 MA's), (26, 12782), (38, 12830), (44, 12851), (57, 12917), (62, 12953), (74, 12998), (86, 13025),

Gene: Kinmap_17 Start: 13216, Stop: 13593, Start Num: 11
Candidate Starts for Kinmap_17:
(Start: 11 @13216 has 642 MA's), (14, 13243), (18, 13279), (26, 13318), (35, 13369), (48, 13420), (57, 13471), (61, 13504), (74, 13555), (83, 13576), (84, 13579), (86, 13582),

Gene: Kipper29_21 Start: 13484, Stop: 13861, Start Num: 11
Candidate Starts for Kipper29_21:
(Start: 11 @13484 has 642 MA's), (14, 13511), (16, 13517), (17, 13544), (18, 13547), (26, 13586), (74, 13823), (84, 13847), (86, 13850),

Gene: KittenMittens_16 Start: 10548, Stop: 10922, Start Num: 11
Candidate Starts for KittenMittens_16:
(Start: 11 @10548 has 642 MA's), (26, 10650), (38, 10716), (44, 10737), (46, 10743), (57, 10803), (62, 10839), (66, 10863), (86, 10911),

Gene: Klodlith_18 Start: 12322, Stop: 12699, Start Num: 11
Candidate Starts for Klodlith_18:
(Start: 11 @12322 has 642 MA's), (26, 12424), (35, 12475), (61, 12610), (67, 12643), (74, 12661), (84, 12685), (86, 12688),

Gene: Koan_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Koan_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Koduck_19 Start: 12551, Stop: 12928, Start Num: 11
Candidate Starts for Koduck_19:
(Start: 11 @12551 has 642 MA's), (14, 12578), (16, 12584), (17, 12611), (18, 12614), (26, 12653), (31, 12683), (48, 12755), (74, 12890), (83, 12911), (84, 12914), (86, 12917),

Gene: Koko_21 Start: 13478, Stop: 13855, Start Num: 11
Candidate Starts for Koko_21:
(Start: 11 @13478 has 642 MA's), (14, 13505), (17, 13538), (18, 13541), (26, 13580), (53, 13721), (74, 13817), (84, 13841), (86, 13844),

Gene: Koreni_16 Start: 12334, Stop: 12690, Start Num: 11
Candidate Starts for Koreni_16:
(Start: 11 @12334 has 642 MA's), (26, 12436), (38, 12484), (44, 12505), (57, 12571), (62, 12607), (74, 12652), (86, 12679),

Gene: Kratark_17 Start: 12683, Stop: 13039, Start Num: 11
Candidate Starts for Kratark_17:
(Start: 11 @12683 has 642 MA's), (26, 12785), (38, 12833), (44, 12854), (57, 12920), (62, 12956), (74, 13001), (86, 13028),

Gene: Kremtemulon_17 Start: 12736, Stop: 13092, Start Num: 11
Candidate Starts for Kremtemulon_17:
(Start: 11 @12736 has 642 MA's), (26, 12838), (38, 12886), (44, 12907), (57, 12973), (62, 13009), (74, 13054), (86, 13081),

Gene: Krishelle_14 Start: 8875, Stop: 9255, Start Num: 11
Candidate Starts for Krishelle_14:
(Start: 11 @8875 has 642 MA's), (13, 8899), (20, 8944), (21, 8947), (33, 9016), (38, 9043), (57, 9130), (72, 9208), (74, 9214), (82, 9235),

Gene: Kristoff_18 Start: 12631, Stop: 13005, Start Num: 11
Candidate Starts for Kristoff_18:
(Start: 11 @12631 has 642 MA's), (26, 12733), (38, 12799), (44, 12820), (57, 12886), (74, 12967), (76, 12973), (86, 12994),

Gene: Kugel_17 Start: 12889, Stop: 13311, Start Num: 5
Candidate Starts for Kugel_17:
(Start: 5 @12889 has 1 MA's), (Start: 9 @12934 has 5 MA's), (13, 12961), (26, 13039), (38, 13105), (45, 13129), (57, 13192), (65, 13249), (78, 13282), (83, 13294), (84, 13297), (86, 13300),

Gene: Kyee_17 Start: 12689, Stop: 13045, Start Num: 11
Candidate Starts for Kyee_17:
(Start: 11 @12689 has 642 MA's), (26, 12791), (38, 12839), (44, 12860), (57, 12926), (62, 12962), (74, 13007), (86, 13034),

Gene: Kykar_14 Start: 12431, Stop: 12808, Start Num: 9
Candidate Starts for Kykar_14:
(4, 12377), (Start: 5 @12386 has 1 MA's), (Start: 9 @12431 has 5 MA's), (13, 12458), (26, 12536), (38, 12602), (45, 12626), (57, 12689), (65, 12746), (78, 12779), (83, 12791), (84, 12794), (86, 12797),

Gene: L5_19 Start: 12559, Stop: 12936, Start Num: 11
Candidate Starts for L5_19:

(Start: 11 @12559 has 642 MA's), (14, 12586), (16, 12592), (17, 12619), (18, 12622), (26, 12661), (31, 12691), (48, 12763), (74, 12898), (83, 12919), (84, 12922), (86, 12925),

Gene: LBerry_19 Start: 12796, Stop: 13167, Start Num: 11
Candidate Starts for LBerry_19:
(Start: 11 @12796 has 642 MA's), (13, 12820), (22, 12880), (26, 12898), (57, 13048), (74, 13129), (76, 13135), (84, 13153), (86, 13156),

Gene: LHTSCC_18 Start: 13000, Stop: 13356, Start Num: 11
Candidate Starts for LHTSCC_18:
(Start: 11 @13000 has 642 MA's), (26, 13102), (38, 13150), (44, 13171), (57, 13237), (62, 13273), (74, 13318), (86, 13345),

Gene: LadyBird_18 Start: 13341, Stop: 13718, Start Num: 11
Candidate Starts for LadyBird_18:
(Start: 11 @13341 has 642 MA's), (15, 13371), (16, 13374), (18, 13404), (26, 13443), (48, 13545), (61, 13629), (74, 13680), (84, 13704), (86, 13707),

Gene: Lambert1_18 Start: 12884, Stop: 13258, Start Num: 11
Candidate Starts for Lambert1_18:
(Start: 11 @12884 has 642 MA's), (13, 12908), (26, 12986), (38, 13052), (44, 13073), (57, 13139), (74, 13220), (84, 13244),

Gene: Landor_19 Start: 15114, Stop: 15491, Start Num: 11
Candidate Starts for Landor_19:
(Start: 11 @15114 has 642 MA's), (17, 15174), (18, 15177), (26, 15216), (48, 15318), (63, 15408), (66, 15429), (74, 15453),

Gene: LappelDuVide_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for LappelDuVide_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: Larenn_19 Start: 13653, Stop: 14030, Start Num: 11
Candidate Starts for Larenn_19:
(Start: 11 @13653 has 642 MA's), (14, 13680), (18, 13716), (26, 13755), (31, 13785), (32, 13791), (48, 13857), (74, 13992), (83, 14013), (84, 14016), (86, 14019),

Gene: LarryKay_19 Start: 12882, Stop: 13253, Start Num: 11
Candidate Starts for LarryKay_19:
(Start: 11 @12882 has 642 MA's), (13, 12906), (22, 12966), (26, 12984), (57, 13134), (74, 13215), (76, 13221), (84, 13239), (86, 13242),

Gene: LastResort_20 Start: 12490, Stop: 12867, Start Num: 11
Candidate Starts for LastResort_20:
(Start: 11 @12490 has 642 MA's), (26, 12592), (45, 12682), (76, 12835), (84, 12853), (86, 12856),

Gene: Lemur_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for Lemur_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: LeoAvram_17 Start: 12685, Stop: 13041, Start Num: 11

Candidate Starts for LeoAvram_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: Leogania_20 Start: 15518, Stop: 15895, Start Num: 11
Candidate Starts for Leogania_20:
(Start: 11 @15518 has 642 MA's), (14, 15545), (16, 15551), (18, 15581), (26, 15620), (31, 15650), (32, 15656), (48, 15722), (74, 15857), (84, 15881), (86, 15884),

Gene: Lev2_14 Start: 11621, Stop: 11995, Start Num: 10
Candidate Starts for Lev2_14:
(Start: 10 @11621 has 52 MA's), (13, 11645), (15, 11651), (45, 11813), (57, 11876), (60, 11906), (66, 11936), (74, 11957), (83, 11978), (84, 11981), (86, 11984),

Gene: Leviathan_20 Start: 13828, Stop: 14205, Start Num: 11
Candidate Starts for Leviathan_20:
(Start: 11 @13828 has 642 MA's), (15, 13858), (16, 13861), (18, 13891), (26, 13930), (61, 14116), (74, 14167), (84, 14191), (86, 14194),

Gene: LilTurb_20 Start: 13855, Stop: 14232, Start Num: 11
Candidate Starts for LilTurb_20:
(Start: 11 @13855 has 642 MA's), (15, 13885), (16, 13888), (18, 13918), (26, 13957), (61, 14143), (74, 14194), (84, 14218), (86, 14221),

Gene: Lilbunny_21 Start: 13460, Stop: 13837, Start Num: 11
Candidate Starts for Lilbunny_21:
(Start: 11 @13460 has 642 MA's), (14, 13487), (16, 13493), (17, 13520), (18, 13523), (26, 13562), (74, 13799), (84, 13823), (86, 13826),

Gene: Lilith_19 Start: 12789, Stop: 13160, Start Num: 11
Candidate Starts for Lilith_19:
(Start: 11 @12789 has 642 MA's), (13, 12813), (22, 12873), (26, 12891), (57, 13041), (74, 13122), (76, 13128), (84, 13146), (86, 13149),

Gene: Lilleskat_19 Start: 14140, Stop: 14517, Start Num: 11
Candidate Starts for Lilleskat_19:
(Start: 11 @14140 has 642 MA's), (26, 14242), (67, 14461), (74, 14479), (76, 14485),

Gene: Lillie_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for Lillie_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: LionsBait_19 Start: 15132, Stop: 15509, Start Num: 11
Candidate Starts for LionsBait_19:
(Start: 11 @15132 has 642 MA's), (14, 15159), (16, 15165), (18, 15195), (26, 15234), (48, 15336), (61, 15420), (74, 15471), (76, 15477), (84, 15495), (86, 15498),

Gene: LittleB_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for LittleB_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: LittleCherry_14 Start: 11801, Stop: 12175, Start Num: 10
Candidate Starts for LittleCherry_14:
(Start: 10 @11801 has 52 MA's), (13, 11825), (15, 11831), (38, 11969), (45, 11993), (57, 12056), (66, 12116), (74, 12137), (83, 12158), (84, 12161), (86, 12164),

Gene: LittleGuy_17 Start: 12631, Stop: 12987, Start Num: 11
Candidate Starts for LittleGuy_17:
(Start: 11 @12631 has 642 MA's), (26, 12733), (38, 12781), (44, 12802), (57, 12868), (62, 12904), (74, 12949), (86, 12976),

Gene: LochMonster_17 Start: 12663, Stop: 13019, Start Num: 11
Candidate Starts for LochMonster_17:
(Start: 11 @12663 has 642 MA's), (26, 12765), (38, 12813), (44, 12834), (57, 12900), (62, 12936), (74, 12981), (86, 13008),

Gene: LogiBear_20 Start: 13255, Stop: 13632, Start Num: 11
Candidate Starts for LogiBear_20:
(Start: 11 @13255 has 642 MA's), (16, 13288), (26, 13357), (32, 13393), (74, 13594), (83, 13615), (84, 13618), (86, 13621),

Gene: Lokk_21 Start: 15047, Stop: 15424, Start Num: 11
Candidate Starts for Lokk_21:
(Start: 11 @15047 has 642 MA's), (14, 15074), (18, 15110), (26, 15149), (48, 15251), (61, 15335), (74, 15386), (76, 15392), (84, 15410), (86, 15413),

Gene: LoneWolf_19 Start: 13949, Stop: 14326, Start Num: 11
Candidate Starts for LoneWolf_19:
(Start: 11 @13949 has 642 MA's), (26, 14051), (35, 14102), (67, 14270), (74, 14288), (76, 14294), (84, 14312),

Gene: Looper_21 Start: 12490, Stop: 12867, Start Num: 11
Candidate Starts for Looper_21:
(Start: 11 @12490 has 642 MA's), (26, 12592), (45, 12682), (76, 12835), (84, 12853), (86, 12856),

Gene: Lorenzo_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Lorenzo_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Loser_21 Start: 15149, Stop: 15526, Start Num: 11
Candidate Starts for Loser_21:
(Start: 11 @15149 has 642 MA's), (13, 15173), (14, 15176), (18, 15212), (26, 15251), (48, 15353), (83, 15509), (84, 15512), (86, 15515),

Gene: Louie6_19 Start: 12883, Stop: 13254, Start Num: 11
Candidate Starts for Louie6_19:
(Start: 11 @12883 has 642 MA's), (13, 12907), (22, 12967), (26, 12985), (57, 13135), (74, 13216), (76, 13222), (84, 13240), (86, 13243),

Gene: Lowa_19 Start: 12788, Stop: 13159, Start Num: 11
Candidate Starts for Lowa_19:
(Start: 11 @12788 has 642 MA's), (13, 12812), (22, 12872), (26, 12890), (57, 13040), (74, 13121), (76, 13127), (84, 13145), (86, 13148),

Gene: Lozinak_37 Start: 15766, Stop: 16146, Start Num: 11
Candidate Starts for Lozinak_37:
(Start: 11 @15766 has 642 MA's), (14, 15793), (18, 15826), (75, 16102),

Gene: Luchador_19 Start: 13710, Stop: 14087, Start Num: 11
Candidate Starts for Luchador_19:
(Start: 11 @13710 has 642 MA's), (16, 13743), (17, 13770), (18, 13773), (26, 13812), (50, 13935), (83, 14070), (84, 14073), (86, 14076),

Gene: Lucivia_18 Start: 13977, Stop: 14354, Start Num: 11
Candidate Starts for Lucivia_18:
(Start: 11 @13977 has 642 MA's), (13, 14001), (18, 14040), (26, 14079), (28, 14085), (83, 14337), (84, 14340), (86, 14343),

Gene: Lucyedi_19 Start: 13553, Stop: 13930, Start Num: 11
Candidate Starts for Lucyedi_19:
(2, 13448), (Start: 11 @13553 has 642 MA's), (14, 13580), (18, 13616), (20, 13622), (26, 13655), (58, 13811), (74, 13892), (76, 13898), (83, 13913), (86, 13919),

Gene: LugYA_21 Start: 12794, Stop: 13165, Start Num: 11
Candidate Starts for LugYA_21:
(Start: 11 @12794 has 642 MA's), (13, 12818), (22, 12878), (26, 12896), (57, 13046), (74, 13127), (76, 13133), (84, 13151), (86, 13154),

Gene: Lunsford_18 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for Lunsford_18:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: MA5_17 Start: 11940, Stop: 12314, Start Num: 11
Candidate Starts for MA5_17:
(Start: 11 @11940 has 642 MA's), (26, 12042), (38, 12108), (44, 12129), (57, 12195), (66, 12255), (74, 12276), (84, 12300),

Gene: MK4_17 Start: 12230, Stop: 12604, Start Num: 11
Candidate Starts for MK4_17:
(Start: 11 @12230 has 642 MA's), (26, 12332), (38, 12398), (44, 12419), (57, 12485), (74, 12566), (76, 12572), (84, 12590),

Gene: MaCh_18 Start: 13925, Stop: 14302, Start Num: 11
Candidate Starts for MaCh_18:
(Start: 11 @13925 has 642 MA's), (13, 13949), (18, 13988), (26, 14027), (28, 14033), (83, 14285), (84, 14288), (86, 14291),

Gene: Mabel_18 Start: 13992, Stop: 14369, Start Num: 11
Candidate Starts for Mabel_18:
(Start: 11 @13992 has 642 MA's), (13, 14016), (18, 14055), (26, 14094), (28, 14100), (83, 14352), (84, 14355), (86, 14358),

Gene: MadMarie_19 Start: 12798, Stop: 13169, Start Num: 11
Candidate Starts for MadMarie_19:

(Start: 11 @12798 has 642 MA's), (13, 12822), (22, 12882), (26, 12900), (57, 13050), (74, 13131), (76, 13137), (84, 13155), (86, 13158),

Gene: Mainiac_19 Start: 12789, Stop: 13160, Start Num: 11
Candidate Starts for Mainiac_19:
(Start: 11 @12789 has 642 MA's), (13, 12813), (22, 12873), (26, 12891), (57, 13041), (74, 13122), (76, 13128), (84, 13146), (86, 13149),

Gene: MajorMajor_17 Start: 12293, Stop: 12670, Start Num: 11
Candidate Starts for MajorMajor_17:
(Start: 11 @12293 has 642 MA's), (14, 12320), (16, 12326), (17, 12353), (18, 12356), (26, 12395), (48, 12497), (74, 12632), (83, 12653), (84, 12656), (86, 12659),

Gene: Malec_19 Start: 13658, Stop: 14035, Start Num: 11
Candidate Starts for Malec_19:
(Start: 11 @13658 has 642 MA's), (14, 13685), (18, 13721), (26, 13760), (31, 13790), (32, 13796), (48, 13862), (74, 13997), (83, 14018), (84, 14021), (86, 14024),

Gene: Malinsilva_21 Start: 12788, Stop: 13159, Start Num: 11
Candidate Starts for Malinsilva_21:
(Start: 11 @12788 has 642 MA's), (13, 12812), (22, 12872), (26, 12890), (57, 13040), (74, 13121), (76, 13127), (84, 13145), (86, 13148),

Gene: Maminiaina_19 Start: 13873, Stop: 14250, Start Num: 11
Candidate Starts for Maminiaina_19:
(Start: 11 @13873 has 642 MA's), (14, 13900), (18, 13936), (26, 13975), (74, 14212), (76, 14218),

Gene: Manu_20 Start: 12870, Stop: 13241, Start Num: 11
Candidate Starts for Manu_20:
(Start: 11 @12870 has 642 MA's), (13, 12894), (22, 12954), (26, 12972), (57, 13122), (74, 13203), (76, 13209), (84, 13227), (86, 13230),

Gene: MarQuardt_19 Start: 12797, Stop: 13168, Start Num: 11
Candidate Starts for MarQuardt_19:
(Start: 11 @12797 has 642 MA's), (13, 12821), (22, 12881), (26, 12899), (57, 13049), (74, 13130), (76, 13136), (84, 13154), (86, 13157),

Gene: Marchesa_17 Start: 12394, Stop: 12768, Start Num: 11
Candidate Starts for Marchesa_17:
(Start: 11 @12394 has 642 MA's), (26, 12496), (38, 12562), (44, 12583), (57, 12649), (74, 12730), (76, 12736), (84, 12754),

Gene: Margo_18 Start: 12909, Stop: 13283, Start Num: 11
Candidate Starts for Margo_18:
(Start: 11 @12909 has 642 MA's), (13, 12933), (26, 13011), (38, 13077), (44, 13098), (57, 13164), (74, 13245), (84, 13269),

Gene: Marie_19 Start: 12794, Stop: 13165, Start Num: 11
Candidate Starts for Marie_19:
(Start: 11 @12794 has 642 MA's), (13, 12818), (22, 12878), (26, 12896), (57, 13046), (74, 13127), (76, 13133), (84, 13151), (86, 13154),

Gene: Marius_20 Start: 12870, Stop: 13241, Start Num: 11

Candidate Starts for Marius_20:
(Start: 11 @12870 has 642 MA's), (13, 12894), (22, 12954), (26, 12972), (57, 13122), (74, 13203), (76, 13209), (84, 13227), (86, 13230),

Gene: MarysWell_13 Start: 11768, Stop: 12142, Start Num: 10
Candidate Starts for MarysWell_13:
(Start: 10 @11768 has 52 MA's), (13, 11792), (15, 11798), (38, 11936), (45, 11960), (57, 12023), (66, 12083), (74, 12104), (83, 12125), (84, 12128), (86, 12131),

Gene: Maverick_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Maverick_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Maxo_17 Start: 12686, Stop: 13042, Start Num: 11
Candidate Starts for Maxo_17:
(Start: 11 @12686 has 642 MA's), (26, 12788), (38, 12836), (44, 12857), (57, 12923), (62, 12959), (74, 13004), (86, 13031),

Gene: Mayonnaise_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Mayonnaise_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Mazhar510_17 Start: 12689, Stop: 13045, Start Num: 11
Candidate Starts for Mazhar510_17:
(Start: 11 @12689 has 642 MA's), (26, 12791), (38, 12839), (44, 12860), (57, 12926), (62, 12962), (74, 13007), (86, 13034),

Gene: McFly_21 Start: 13484, Stop: 13861, Start Num: 11
Candidate Starts for McFly_21:
(Start: 11 @13484 has 642 MA's), (14, 13511), (16, 13517), (17, 13544), (18, 13547), (26, 13586), (74, 13823), (84, 13847), (86, 13850),

Gene: Medusa_17 Start: 12689, Stop: 13045, Start Num: 11
Candidate Starts for Medusa_17:
(Start: 11 @12689 has 642 MA's), (26, 12791), (38, 12839), (44, 12860), (57, 12926), (62, 12962), (74, 13007), (86, 13034),

Gene: MeeZee_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for MeeZee_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: MegTheThird_17 Start: 12310, Stop: 12687, Start Num: 11
Candidate Starts for MegTheThird_17:
(Start: 11 @12310 has 642 MA's), (20, 12379), (26, 12412), (61, 12598), (67, 12631), (74, 12649), (84, 12673), (86, 12676),

Gene: Melvin_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Melvin_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Methuselah_19 Start: 12879, Stop: 13250, Start Num: 11
Candidate Starts for Methuselah_19:
(Start: 11 @12879 has 642 MA's), (13, 12903), (22, 12963), (26, 12981), (57, 13131), (74, 13212), (76, 13218), (84, 13236), (86, 13239),

Gene: Micasa_14 Start: 11769, Stop: 12143, Start Num: 10
Candidate Starts for Micasa_14:
(Start: 10 @11769 has 52 MA's), (13, 11793), (15, 11799), (38, 11937), (45, 11961), (57, 12024), (66, 12084), (74, 12105), (83, 12126), (84, 12129), (86, 12132),

Gene: Microwolf_19 Start: 12797, Stop: 13168, Start Num: 11
Candidate Starts for Microwolf_19:
(Start: 11 @12797 has 642 MA's), (13, 12821), (22, 12881), (26, 12899), (57, 13049), (74, 13130), (76, 13136), (84, 13154), (86, 13157),

Gene: MiculUcigas_18 Start: 13422, Stop: 13799, Start Num: 11
Candidate Starts for MiculUcigas_18:
(Start: 11 @13422 has 642 MA's), (14, 13449), (16, 13455), (18, 13485), (26, 13524), (31, 13554), (48, 13626), (74, 13761), (83, 13782), (84, 13785), (86, 13788),

Gene: Midas2_14 Start: 11768, Stop: 12142, Start Num: 10
Candidate Starts for Midas2_14:
(Start: 10 @11768 has 52 MA's), (13, 11792), (15, 11798), (38, 11936), (45, 11960), (57, 12023), (66, 12083), (74, 12104), (83, 12125), (84, 12128), (86, 12131),

Gene: Miko_21 Start: 15016, Stop: 15393, Start Num: 11
Candidate Starts for Miko_21:
(Start: 11 @15016 has 642 MA's), (14, 15043), (18, 15079), (26, 15118), (48, 15220), (61, 15304), (74, 15355), (76, 15361), (84, 15379), (86, 15382),

Gene: Milcery_14 Start: 11805, Stop: 12179, Start Num: 10
Candidate Starts for Milcery_14:
(Start: 10 @11805 has 52 MA's), (13, 11829), (15, 11835), (38, 11973), (45, 11997), (57, 12060), (66, 12120), (74, 12141), (83, 12162), (84, 12165), (86, 12168),

Gene: Millski_17 Start: 12691, Stop: 13047, Start Num: 11
Candidate Starts for Millski_17:
(Start: 11 @12691 has 642 MA's), (26, 12793), (38, 12841), (44, 12862), (57, 12928), (62, 12964), (74, 13009), (86, 13036),

Gene: MinecraftSteve_21 Start: 12612, Stop: 12989, Start Num: 11
Candidate Starts for MinecraftSteve_21:
(Start: 11 @12612 has 642 MA's), (26, 12714), (45, 12804), (76, 12957), (84, 12975), (86, 12978),

Gene: Minispark_16 Start: 12210, Stop: 12587, Start Num: 11
Candidate Starts for Minispark_16:
(Start: 11 @12210 has 642 MA's), (26, 12312), (67, 12531), (74, 12549), (76, 12555), (84, 12573), (86, 12576),

Gene: Miramae_17 Start: 12636, Stop: 12992, Start Num: 11
Candidate Starts for Miramae_17:

(Start: 11 @12636 has 642 MA's), (26, 12738), (38, 12786), (44, 12807), (57, 12873), (62, 12909), (80, 12966), (86, 12981),

Gene: Miskis_35 Start: 15529, Stop: 15909, Start Num: 11
Candidate Starts for Miskis_35:
(Start: 11 @15529 has 642 MA's), (14, 15556), (18, 15589), (75, 15865),

Gene: Misomonster_21 Start: 12879, Stop: 13250, Start Num: 11
Candidate Starts for Misomonster_21:
(Start: 11 @12879 has 642 MA's), (13, 12903), (22, 12963), (26, 12981), (57, 13131), (74, 13212), (76, 13218), (84, 13236), (86, 13239),

Gene: MissWhite_18 Start: 12457, Stop: 12834, Start Num: 11
Candidate Starts for MissWhite_18:
(Start: 11 @12457 has 642 MA's), (14, 12484), (18, 12520), (26, 12559), (48, 12661), (74, 12796), (83, 12817), (84, 12820), (86, 12823),

Gene: Mollymur_20 Start: 14083, Stop: 14469, Start Num: 11
Candidate Starts for Mollymur_20:
(3, 13987), (Start: 11 @14083 has 642 MA's), (23, 14173), (29, 14203), (43, 14269),

Gene: MoneyMay_19 Start: 12794, Stop: 13165, Start Num: 11
Candidate Starts for MoneyMay_19:
(Start: 11 @12794 has 642 MA's), (13, 12818), (22, 12878), (26, 12896), (57, 13046), (74, 13127), (76, 13133), (84, 13151), (86, 13154),

Gene: Montavir_18 Start: 12796, Stop: 13167, Start Num: 11
Candidate Starts for Montavir_18:
(Start: 11 @12796 has 642 MA's), (13, 12820), (22, 12880), (26, 12898), (57, 13048), (74, 13129), (76, 13135), (84, 13153), (86, 13156),

Gene: Morpher26_17 Start: 12690, Stop: 13046, Start Num: 11
Candidate Starts for Morpher26_17:
(Start: 11 @12690 has 642 MA's), (26, 12792), (38, 12840), (44, 12861), (57, 12927), (62, 12963), (80, 13020), (86, 13035),

Gene: Morrow_17 Start: 12691, Stop: 13047, Start Num: 11
Candidate Starts for Morrow_17:
(Start: 11 @12691 has 642 MA's), (26, 12793), (38, 12841), (44, 12862), (57, 12928), (62, 12964), (74, 13009), (86, 13036),

Gene: MuchMore_21 Start: 12788, Stop: 13159, Start Num: 11
Candidate Starts for MuchMore_21:
(Start: 11 @12788 has 642 MA's), (13, 12812), (22, 12872), (26, 12890), (57, 13040), (74, 13121), (76, 13127), (84, 13145), (86, 13148),

Gene: Mulciber_18 Start: 13928, Stop: 14305, Start Num: 11
Candidate Starts for Mulciber_18:
(Start: 11 @13928 has 642 MA's), (13, 13952), (18, 13991), (26, 14030), (28, 14036), (83, 14288), (84, 14291), (86, 14294),

Gene: Munch_18 Start: 13928, Stop: 14305, Start Num: 11
Candidate Starts for Munch_18:

(Start: 11 @13928 has 642 MA's), (13, 13952), (18, 13991), (26, 14030), (28, 14036), (83, 14288), (84, 14291), (86, 14294),

Gene: Mundrea_17 Start: 12656, Stop: 13012, Start Num: 11
Candidate Starts for Mundrea_17:
(Start: 11 @12656 has 642 MA's), (26, 12758), (38, 12806), (44, 12827), (45, 12830), (57, 12893), (62, 12929), (80, 12986), (86, 13001),

Gene: MyraDee_15 Start: 10885, Stop: 11268, Start Num: 11
Candidate Starts for MyraDee_15:
(Start: 11 @10885 has 642 MA's), (15, 10915), (36, 11053), (38, 11062), (57, 11149), (74, 11230), (83, 11251), (84, 11254), (86, 11257),

Gene: Myxus_19 Start: 14140, Stop: 14517, Start Num: 11
Candidate Starts for Myxus_19:
(Start: 11 @14140 has 642 MA's), (26, 14242), (67, 14461), (74, 14479), (76, 14485),

Gene: NaSiaTalie_18 Start: 13419, Stop: 13796, Start Num: 11
Candidate Starts for NaSiaTalie_18:
(Start: 11 @13419 has 642 MA's), (14, 13446), (16, 13452), (18, 13482), (26, 13521), (31, 13551), (48, 13623), (74, 13758), (83, 13779), (84, 13782), (86, 13785),

Gene: Naca_14 Start: 11722, Stop: 12096, Start Num: 10
Candidate Starts for Naca_14:
(Start: 10 @11722 has 52 MA's), (13, 11746), (15, 11752), (45, 11914), (57, 11977), (66, 12037), (74, 12058), (83, 12079), (84, 12082), (86, 12085),

Gene: Naiad_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for Naiad_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: Naji_21 Start: 13272, Stop: 13646, Start Num: 11
Candidate Starts for Naji_21:
(Start: 11 @13272 has 642 MA's), (14, 13299), (16, 13305), (18, 13335), (26, 13374), (32, 13410), (45, 13461), (48, 13473), (66, 13584), (74, 13608), (84, 13632), (86, 13635),

Gene: Nancinator_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for Nancinator_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: Natosaleda_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for Natosaleda_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: NearlyHeadless_14 Start: 11413, Stop: 11787, Start Num: 10
Candidate Starts for NearlyHeadless_14:
(Start: 10 @11413 has 52 MA's), (38, 11581), (45, 11605), (48, 11617), (57, 11668), (65, 11725), (66, 11728), (74, 11749), (83, 11770), (84, 11773),

Gene: Nebs_17 Start: 12685, Stop: 13041, Start Num: 11

Candidate Starts for Nebs_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: Nebulosus_20 Start: 12490, Stop: 12867, Start Num: 11
Candidate Starts for Nebulosus_20:
(Start: 11 @12490 has 642 MA's), (26, 12592), (45, 12682), (76, 12835), (84, 12853), (86, 12856),

Gene: Nedarya_19 Start: 13079, Stop: 13456, Start Num: 11
Candidate Starts for Nedarya_19:
(Start: 11 @13079 has 642 MA's), (26, 13181), (66, 13394), (76, 13424), (84, 13442), (86, 13445),

Gene: Neeharika16_21 Start: 13475, Stop: 13852, Start Num: 11
Candidate Starts for Neeharika16_21:
(Start: 11 @13475 has 642 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (26, 13577), (74, 13814), (84, 13838), (86, 13841),

Gene: Nemo27_17 Start: 12687, Stop: 13043, Start Num: 11
Candidate Starts for Nemo27_17:
(Start: 11 @12687 has 642 MA's), (26, 12789), (38, 12837), (44, 12858), (57, 12924), (62, 12960), (74, 13005), (86, 13032),

Gene: Newrala_21 Start: 13475, Stop: 13852, Start Num: 11
Candidate Starts for Newrala_21:
(Start: 11 @13475 has 642 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (26, 13577), (74, 13814), (84, 13838), (86, 13841),

Gene: NicoleTera_22 Start: 15133, Stop: 15510, Start Num: 11
Candidate Starts for NicoleTera_22:
(Start: 11 @15133 has 642 MA's), (14, 15160), (18, 15196), (26, 15235), (48, 15337), (59, 15403), (74, 15472), (84, 15496), (86, 15499),

Gene: Noella_18 Start: 12884, Stop: 13258, Start Num: 11
Candidate Starts for Noella_18:
(Start: 11 @12884 has 642 MA's), (13, 12908), (26, 12986), (38, 13052), (44, 13073), (57, 13139), (74, 13220), (84, 13244),

Gene: Noelle_17 Start: 12742, Stop: 13098, Start Num: 11
Candidate Starts for Noelle_17:
(Start: 11 @12742 has 642 MA's), (26, 12844), (38, 12892), (44, 12913), (57, 12979), (62, 13015), (80, 13072), (86, 13087),

Gene: Norbert_17 Start: 12884, Stop: 13258, Start Num: 11
Candidate Starts for Norbert_17:
(Start: 11 @12884 has 642 MA's), (13, 12908), (26, 12986), (38, 13052), (44, 13073), (57, 13139), (74, 13220), (84, 13244),

Gene: NorthStar_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for NorthStar_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Northrop_17 Start: 12684, Stop: 13040, Start Num: 11

Candidate Starts for Northrop_17:
(Start: 11 @12684 has 642 MA's), (26, 12786), (38, 12834), (44, 12855), (57, 12921), (62, 12957), (74, 13002), (86, 13029),

Gene: Norvs_38 Start: 15768, Stop: 16148, Start Num: 11
Candidate Starts for Norvs_38:
(Start: 11 @15768 has 642 MA's), (14, 15795), (18, 15828), (75, 16104),

Gene: NotAPhaseMom_17 Start: 12692, Stop: 13048, Start Num: 11
Candidate Starts for NotAPhaseMom_17:
(Start: 11 @12692 has 642 MA's), (26, 12794), (38, 12842), (44, 12863), (57, 12929), (62, 12965), (74, 13010), (86, 13037),

Gene: NothingSpecial_20 Start: 15386, Stop: 15766, Start Num: 11
Candidate Starts for NothingSpecial_20:
(Start: 11 @15386 has 642 MA's), (18, 15449), (26, 15488), (48, 15590), (60, 15671), (63, 15680), (66, 15701), (74, 15725), (84, 15749), (86, 15752),

Gene: Nyxis_17 Start: 12631, Stop: 12987, Start Num: 11
Candidate Starts for Nyxis_17:
(Start: 11 @12631 has 642 MA's), (26, 12733), (38, 12781), (44, 12802), (57, 12868), (62, 12904), (74, 12949), (86, 12976),

Gene: OKCentral2016_17 Start: 12150, Stop: 12524, Start Num: 11
Candidate Starts for OKCentral2016_17:
(Start: 11 @12150 has 642 MA's), (26, 12252), (38, 12318), (44, 12339), (57, 12405), (62, 12441), (74, 12486), (76, 12492), (86, 12513),

Gene: OKaNui_18 Start: 12741, Stop: 13097, Start Num: 11
Candidate Starts for OKaNui_18:
(Start: 11 @12741 has 642 MA's), (26, 12843), (38, 12891), (44, 12912), (57, 12978), (62, 13014), (74, 13059), (86, 13086),

Gene: Obama12_18 Start: 13002, Stop: 13358, Start Num: 11
Candidate Starts for Obama12_18:
(Start: 11 @13002 has 642 MA's), (26, 13104), (38, 13152), (44, 13173), (57, 13239), (62, 13275), (74, 13320), (86, 13347),

Gene: Odin_17 Start: 12161, Stop: 12538, Start Num: 11
Candidate Starts for Odin_17:
(Start: 11 @12161 has 642 MA's), (14, 12188), (16, 12194), (18, 12224), (26, 12263), (74, 12500), (84, 12524), (86, 12527),

Gene: Ohfah_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for Ohfah_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: OlanP_19 Start: 13050, Stop: 13421, Start Num: 11
Candidate Starts for OlanP_19:
(Start: 11 @13050 has 642 MA's), (13, 13074), (22, 13134), (26, 13152), (57, 13302), (74, 13383), (76, 13389), (84, 13407), (86, 13410),

Gene: Ollie_19 Start: 12667, Stop: 13038, Start Num: 11
Candidate Starts for Ollie_19:
(Start: 11 @12667 has 642 MA's), (13, 12691), (22, 12751), (26, 12769), (57, 12919), (74, 13000), (76, 13006), (84, 13024), (86, 13027),

Gene: OneUp_31 Start: 13478, Stop: 13864, Start Num: 11
Candidate Starts for OneUp_31:
(Start: 11 @13478 has 642 MA's), (12, 13496), (42, 13649), (73, 13811), (75, 13817),

Gene: Onglai_18 Start: 12474, Stop: 12851, Start Num: 11
Candidate Starts for Onglai_18:
(Start: 11 @12474 has 642 MA's), (26, 12576), (67, 12795), (74, 12813), (76, 12819),

Gene: Oofda_20 Start: 12461, Stop: 12838, Start Num: 11
Candidate Starts for Oofda_20:
(Start: 11 @12461 has 642 MA's), (26, 12563), (45, 12653), (76, 12806), (84, 12824), (86, 12827),

Gene: Orange_18 Start: 13928, Stop: 14305, Start Num: 11
Candidate Starts for Orange_18:
(Start: 11 @13928 has 642 MA's), (13, 13952), (18, 13991), (26, 14030), (28, 14036), (83, 14288), (84, 14291), (86, 14294),

Gene: P28Green_19 Start: 12795, Stop: 13166, Start Num: 11
Candidate Starts for P28Green_19:
(Start: 11 @12795 has 642 MA's), (13, 12819), (22, 12879), (26, 12897), (57, 13047), (74, 13128), (76, 13134), (84, 13152), (86, 13155),

Gene: PGHhamlin_21 Start: 12788, Stop: 13159, Start Num: 11
Candidate Starts for PGHhamlin_21:
(Start: 11 @12788 has 642 MA's), (13, 12812), (22, 12872), (26, 12890), (57, 13040), (74, 13121), (76, 13127), (84, 13145), (86, 13148),

Gene: PP_27 Start: 18548, Stop: 18922, Start Num: 11
Candidate Starts for PP_27:
(Start: 11 @18548 has 642 MA's), (26, 18650), (44, 18737), (57, 18803), (66, 18863), (74, 18884), (84, 18908), (86, 18911),

Gene: PackMan_19 Start: 14140, Stop: 14517, Start Num: 11
Candidate Starts for PackMan_19:
(Start: 11 @14140 has 642 MA's), (26, 14242), (67, 14461), (74, 14479), (76, 14485),

Gene: PainterBoy_19 Start: 13553, Stop: 13930, Start Num: 11
Candidate Starts for PainterBoy_19:
(2, 13448), (Start: 11 @13553 has 642 MA's), (14, 13580), (18, 13616), (20, 13622), (26, 13655), (58, 13811), (74, 13892), (76, 13898), (83, 13913), (86, 13919),

Gene: Palestino_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Palestino_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (60, 12955), (62, 12961), (74, 13006), (86, 13033),

Gene: Panamaxus_18 Start: 12884, Stop: 13258, Start Num: 11
Candidate Starts for Panamaxus_18:

(Start: 11 @12884 has 642 MA's), (13, 12908), (26, 12986), (38, 13052), (44, 13073), (57, 13139), (74, 13220), (84, 13244),

Gene: Partridge_14 Start: 8943, Stop: 9323, Start Num: 11
Candidate Starts for Partridge_14:
(Start: 11 @8943 has 642 MA's), (13, 8967), (21, 9015), (33, 9084), (38, 9111), (57, 9198), (72, 9276), (74, 9282), (82, 9303),

Gene: Pawn_19 Start: 12870, Stop: 13241, Start Num: 11
Candidate Starts for Pawn_19:
(Start: 11 @12870 has 642 MA's), (13, 12894), (22, 12954), (26, 12972), (57, 13122), (74, 13203), (76, 13209), (84, 13227), (86, 13230),

Gene: PeaceMeal1_16 Start: 10549, Stop: 10923, Start Num: 11
Candidate Starts for PeaceMeal1_16:
(Start: 11 @10549 has 642 MA's), (26, 10651), (38, 10717), (44, 10738), (46, 10744), (57, 10804), (62, 10840), (66, 10864), (86, 10912),

Gene: Peaches_17 Start: 12687, Stop: 13043, Start Num: 11
Candidate Starts for Peaches_17:
(Start: 11 @12687 has 642 MA's), (26, 12789), (38, 12837), (44, 12858), (57, 12924), (62, 12960), (74, 13005), (86, 13032),

Gene: Pembroke_19 Start: 12797, Stop: 13168, Start Num: 11
Candidate Starts for Pembroke_19:
(Start: 11 @12797 has 642 MA's), (13, 12821), (22, 12881), (26, 12899), (57, 13049), (74, 13130), (76, 13136), (84, 13154), (86, 13157),

Gene: Penny1_19 Start: 12796, Stop: 13167, Start Num: 11
Candidate Starts for Penny1_19:
(Start: 11 @12796 has 642 MA's), (13, 12820), (22, 12880), (26, 12898), (57, 13048), (74, 13129), (76, 13135), (84, 13153), (86, 13156),

Gene: Perplexer_17 Start: 12684, Stop: 13040, Start Num: 11
Candidate Starts for Perplexer_17:
(Start: 11 @12684 has 642 MA's), (26, 12786), (38, 12834), (44, 12855), (57, 12921), (62, 12957), (80, 13014), (86, 13029),

Gene: PeterPeter_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for PeterPeter_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Petersenfast_18 Start: 13931, Stop: 14308, Start Num: 11
Candidate Starts for Petersenfast_18:
(Start: 11 @13931 has 642 MA's), (13, 13955), (18, 13994), (26, 14033), (28, 14039), (83, 14291), (84, 14294), (86, 14297),

Gene: PetiteSangsue_17 Start: 12690, Stop: 13046, Start Num: 11
Candidate Starts for PetiteSangsue_17:
(Start: 11 @12690 has 642 MA's), (26, 12792), (38, 12840), (44, 12861), (57, 12927), (62, 12963), (80, 13020), (86, 13035),

Gene: PetterN_15 Start: 11609, Stop: 11983, Start Num: 10
Candidate Starts for PetterN_15:
(Start: 10 @11609 has 52 MA's), (13, 11633), (15, 11639), (45, 11801), (57, 11864), (66, 11924), (74, 11945), (83, 11966), (84, 11969), (86, 11972),

Gene: Ph8s_19 Start: 12120, Stop: 12497, Start Num: 11
Candidate Starts for Ph8s_19:
(Start: 11 @12120 has 642 MA's), (14, 12147), (16, 12153), (18, 12183), (26, 12222), (74, 12459), (84, 12483), (86, 12486),

Gene: Phacado_17 Start: 12687, Stop: 13043, Start Num: 11
Candidate Starts for Phacado_17:
(Start: 11 @12687 has 642 MA's), (26, 12789), (38, 12837), (44, 12858), (57, 12924), (62, 12960), (74, 13005), (86, 13032),

Gene: Phaded_21 Start: 15461, Stop: 15838, Start Num: 11
Candidate Starts for Phaded_21:
(Start: 11 @15461 has 642 MA's), (17, 15521), (18, 15524), (26, 15563), (48, 15665), (63, 15755), (66, 15776), (74, 15800),

Gene: Phaeder_19 Start: 14140, Stop: 14517, Start Num: 11
Candidate Starts for Phaeder_19:
(Start: 11 @14140 has 642 MA's), (26, 14242), (67, 14461), (74, 14479), (76, 14485),

Gene: PhailMary_13 Start: 8926, Stop: 9306, Start Num: 11
Candidate Starts for PhailMary_13:
(Start: 11 @8926 has 642 MA's), (13, 8950), (20, 8995), (21, 8998), (33, 9067), (38, 9094), (57, 9181), (72, 9259), (74, 9265), (82, 9286),

Gene: Phantastic_17 Start: 12309, Stop: 12683, Start Num: 11
Candidate Starts for Phantastic_17:
(Start: 11 @12309 has 642 MA's), (26, 12411), (38, 12477), (44, 12498), (57, 12564), (74, 12645), (76, 12651), (84, 12669),

Gene: Pharaoh_18 Start: 13887, Stop: 14264, Start Num: 11
Candidate Starts for Pharaoh_18:
(Start: 11 @13887 has 642 MA's), (18, 13950), (26, 13989), (44, 14076), (48, 14091), (50, 14112), (74, 14226), (84, 14250),

Gene: Phelipe_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Phelipe_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Phighter1804_17 Start: 12666, Stop: 13022, Start Num: 11
Candidate Starts for Phighter1804_17:
(Start: 11 @12666 has 642 MA's), (26, 12768), (38, 12816), (44, 12837), (57, 12903), (62, 12939), (74, 12984), (86, 13011),

Gene: Phillis_14 Start: 11371, Stop: 11745, Start Num: 10
Candidate Starts for Phillis_14:
(Start: 10 @11371 has 52 MA's), (38, 11539), (45, 11563), (48, 11575), (57, 11626), (65, 11683), (66, 11686), (74, 11707), (83, 11728), (84, 11731),

Gene: PhinkBoden_37 Start: 16149, Stop: 16529, Start Num: 11
Candidate Starts for PhinkBoden_37:
(Start: 11 @16149 has 642 MA's), (14, 16176), (18, 16209), (75, 16485),

Gene: PhishRPhriends_18 Start: 12055, Stop: 12426, Start Num: 11
Candidate Starts for PhishRPhriends_18:
(Start: 11 @12055 has 642 MA's), (13, 12079), (22, 12139), (26, 12157), (57, 12307), (74, 12388), (76, 12394), (84, 12412), (86, 12415),

Gene: Phlei_13 Start: 13995, Stop: 14369, Start Num: 11
Candidate Starts for Phlei_13:
(7, 13974), (Start: 11 @13995 has 642 MA's), (26, 14097), (44, 14181), (45, 14184), (74, 14331), (83, 14352), (86, 14358),

Gene: Phlorence_14 Start: 11908, Stop: 12282, Start Num: 10
Candidate Starts for Phlorence_14:
(Start: 10 @11908 has 52 MA's), (13, 11932), (15, 11938), (45, 12100), (57, 12163), (60, 12193), (66, 12223), (74, 12244), (83, 12265), (84, 12268), (86, 12271),

Gene: Phoebe_19 Start: 12794, Stop: 13165, Start Num: 11
Candidate Starts for Phoebe_19:
(Start: 11 @12794 has 642 MA's), (13, 12818), (22, 12878), (26, 12896), (57, 13046), (74, 13127), (76, 13133), (84, 13151), (86, 13154),

Gene: Phonnegut_19 Start: 14173, Stop: 14550, Start Num: 11
Candidate Starts for Phonnegut_19:
(Start: 11 @14173 has 642 MA's), (26, 14275), (67, 14494), (74, 14512), (76, 14518),

Gene: Phontbonne_17 Start: 12632, Stop: 12988, Start Num: 11
Candidate Starts for Phontbonne_17:
(Start: 11 @12632 has 642 MA's), (26, 12734), (38, 12782), (44, 12803), (57, 12869), (62, 12905), (74, 12950), (86, 12977),

Gene: Phoxy_19 Start: 12880, Stop: 13251, Start Num: 11
Candidate Starts for Phoxy_19:
(Start: 11 @12880 has 642 MA's), (13, 12904), (22, 12964), (26, 12982), (57, 13132), (74, 13213), (76, 13219), (84, 13237), (86, 13240),

Gene: Phrankenstein_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for Phrankenstein_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: Phranny_20 Start: 12862, Stop: 13233, Start Num: 11
Candidate Starts for Phranny_20:
(Start: 11 @12862 has 642 MA's), (13, 12886), (22, 12946), (26, 12964), (57, 13114), (74, 13195), (76, 13201), (84, 13219), (86, 13222),

Gene: PickleBack_14 Start: 11622, Stop: 11996, Start Num: 10
Candidate Starts for PickleBack_14:
(Start: 10 @11622 has 52 MA's), (13, 11646), (15, 11652), (45, 11814), (57, 11877), (60, 11907), (66, 11937), (74, 11958), (83, 11979), (84, 11982), (86, 11985),

Gene: Pioneer_19 Start: 14173, Stop: 14550, Start Num: 11
Candidate Starts for Pioneer_19:
(Start: 11 @14173 has 642 MA's), (26, 14275), (67, 14494), (74, 14512), (76, 14518),

Gene: Pipcraft_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Pipcraft_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Piro94_19 Start: 13880, Stop: 14257, Start Num: 11
Candidate Starts for Piro94_19:
(Start: 11 @13880 has 642 MA's), (14, 13907), (16, 13913), (18, 13943), (26, 13982), (31, 14012), (48, 14084), (74, 14219), (83, 14240), (84, 14243), (86, 14246),

Gene: Pistachio_18 Start: 11890, Stop: 12264, Start Num: 11
Candidate Starts for Pistachio_18:
(Start: 11 @11890 has 642 MA's), (26, 11992), (38, 12058), (44, 12079), (57, 12145), (74, 12226), (76, 12232), (84, 12250),

Gene: Pmask_21 Start: 13476, Stop: 13853, Start Num: 11
Candidate Starts for Pmask_21:
(Start: 11 @13476 has 642 MA's), (14, 13503), (16, 13509), (17, 13536), (18, 13539), (26, 13578), (74, 13815), (84, 13839), (86, 13842),

Gene: Pocahontas_18 Start: 12881, Stop: 13255, Start Num: 11
Candidate Starts for Pocahontas_18:
(Start: 11 @12881 has 642 MA's), (13, 12905), (26, 12983), (38, 13049), (44, 13070), (57, 13136), (74, 13217), (84, 13241),

Gene: Polymorphads_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for Polymorphads_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: Polyphemus_21 Start: 13477, Stop: 13854, Start Num: 11
Candidate Starts for Polyphemus_21:
(Start: 11 @13477 has 642 MA's), (14, 13504), (16, 13510), (17, 13537), (18, 13540), (26, 13579), (74, 13816), (84, 13840), (86, 13843),

Gene: Pomar16_21 Start: 13313, Stop: 13687, Start Num: 11
Candidate Starts for Pomar16_21:
(Start: 11 @13313 has 642 MA's), (14, 13340), (16, 13346), (18, 13376), (26, 13415), (32, 13451), (45, 13502), (48, 13514), (66, 13625), (74, 13649), (84, 13673), (86, 13676),

Gene: Poompha_16 Start: 10547, Stop: 10921, Start Num: 11
Candidate Starts for Poompha_16:
(Start: 11 @10547 has 642 MA's), (26, 10649), (38, 10715), (44, 10736), (46, 10742), (57, 10802), (62, 10838), (66, 10862), (86, 10910),

Gene: Popcicle_18 Start: 12881, Stop: 13255, Start Num: 11
Candidate Starts for Popcicle_18:

(Start: 11 @12881 has 642 MA's), (13, 12905), (26, 12983), (38, 13049), (44, 13070), (57, 13136), (74, 13217), (84, 13241),

Gene: PotatoSplit_20 Start: 12796, Stop: 13167, Start Num: 11
Candidate Starts for PotatoSplit_20:
(Start: 11 @12796 has 642 MA's), (13, 12820), (22, 12880), (26, 12898), (57, 13048), (74, 13129), (76, 13135), (84, 13153), (86, 13156),

Gene: Power_18 Start: 13318, Stop: 13695, Start Num: 11
Candidate Starts for Power_18:
(Start: 11 @13318 has 642 MA's), (15, 13348), (16, 13351), (18, 13381), (26, 13420), (48, 13522), (74, 13657), (76, 13663), (84, 13681),

Gene: Priamo_21 Start: 13503, Stop: 13880, Start Num: 11
Candidate Starts for Priamo_21:
(Start: 11 @13503 has 642 MA's), (14, 13530), (16, 13536), (17, 13563), (18, 13566), (26, 13605), (74, 13842), (84, 13866), (86, 13869),

Gene: Prinashe11_14 Start: 11768, Stop: 12142, Start Num: 10
Candidate Starts for Prinashe11_14:
(Start: 10 @11768 has 52 MA's), (13, 11792), (15, 11798), (38, 11936), (45, 11960), (57, 12023), (66, 12083), (74, 12104), (83, 12125), (84, 12128), (86, 12131),

Gene: Priya_19 Start: 14171, Stop: 14548, Start Num: 11
Candidate Starts for Priya_19:
(Start: 11 @14171 has 642 MA's), (26, 14273), (67, 14492), (74, 14510), (76, 14516),

Gene: Prudy_21 Start: 15183, Stop: 15560, Start Num: 11
Candidate Starts for Prudy_21:
(Start: 11 @15183 has 642 MA's), (14, 15210), (15, 15213), (18, 15246), (26, 15285), (33, 15324), (48, 15387), (74, 15522), (84, 15546),

Gene: Pukovnik_20 Start: 15014, Stop: 15391, Start Num: 11
Candidate Starts for Pukovnik_20:
(Start: 11 @15014 has 642 MA's), (14, 15041), (18, 15077), (26, 15116), (63, 15308), (66, 15329), (74, 15353), (84, 15377), (86, 15380),

Gene: Pumbaa_17 Start: 12663, Stop: 13019, Start Num: 11
Candidate Starts for Pumbaa_17:
(Start: 11 @12663 has 642 MA's), (26, 12765), (38, 12813), (44, 12834), (57, 12900), (62, 12936), (74, 12981), (86, 13008),

Gene: Puppy_18 Start: 11962, Stop: 12336, Start Num: 11
Candidate Starts for Puppy_18:
(Start: 11 @11962 has 642 MA's), (26, 12064), (38, 12130), (44, 12151), (57, 12217), (74, 12298), (76, 12304), (84, 12322),

Gene: PurpleHaze_19 Start: 12869, Stop: 13240, Start Num: 11
Candidate Starts for PurpleHaze_19:
(Start: 11 @12869 has 642 MA's), (13, 12893), (22, 12953), (26, 12971), (57, 13121), (74, 13202), (76, 13208), (84, 13226), (86, 13229),

Gene: Qobbit_19 Start: 14170, Stop: 14547, Start Num: 11

Candidate Starts for Qobbit_19:
(Start: 11 @14170 has 642 MA's), (26, 14272), (67, 14491), (74, 14509), (76, 14515),

Gene: QueenB2_18 Start: 13396, Stop: 13773, Start Num: 11
Candidate Starts for QueenB2_18:
(Start: 11 @13396 has 642 MA's), (14, 13423), (16, 13429), (18, 13459), (26, 13498), (30, 13522), (48, 13600), (74, 13735), (84, 13759),

Gene: QueenBeesly_18 Start: 13318, Stop: 13695, Start Num: 11
Candidate Starts for QueenBeesly_18:
(Start: 11 @13318 has 642 MA's), (15, 13348), (16, 13351), (18, 13381), (26, 13420), (48, 13522), (74, 13657), (76, 13663), (84, 13681),

Gene: QuinnKiro_17 Start: 12884, Stop: 13258, Start Num: 11
Candidate Starts for QuinnKiro_17:
(Start: 11 @12884 has 642 MA's), (13, 12908), (26, 12986), (38, 13052), (44, 13073), (57, 13139), (74, 13220), (84, 13244),

Gene: Quokka_16 Start: 12293, Stop: 12670, Start Num: 11
Candidate Starts for Quokka_16:
(Start: 11 @12293 has 642 MA's), (14, 12320), (16, 12326), (17, 12353), (18, 12356), (26, 12395), (48, 12497), (74, 12632), (83, 12653), (84, 12656), (86, 12659),

Gene: RER2_7 Start: 5788, Stop: 6168, Start Num: 11
Candidate Starts for RER2_7:
(Start: 11 @5788 has 642 MA's), (13, 5812), (21, 5860), (38, 5956), (48, 5992), (50, 6013), (57, 6043), (66, 6103), (72, 6121), (74, 6127), (82, 6148),

Gene: RGL3_7 Start: 5752, Stop: 6132, Start Num: 11
Candidate Starts for RGL3_7:
(Start: 11 @5752 has 642 MA's), (21, 5824), (41, 5929), (50, 5977), (57, 6007), (74, 6091),

Gene: Rachaly_21 Start: 15044, Stop: 15421, Start Num: 11
Candidate Starts for Rachaly_21:
(Start: 11 @15044 has 642 MA's), (14, 15071), (18, 15107), (26, 15146), (48, 15248), (61, 15332), (74, 15383), (76, 15389), (84, 15407), (86, 15410),

Gene: Rahalelujah_17 Start: 12210, Stop: 12587, Start Num: 11
Candidate Starts for Rahalelujah_17:
(Start: 11 @12210 has 642 MA's), (26, 12312), (67, 12531), (74, 12549), (76, 12555), (84, 12573), (86, 12576),

Gene: Rasputin_14 Start: 8884, Stop: 9264, Start Num: 11
Candidate Starts for Rasputin_14:
(Start: 11 @8884 has 642 MA's), (13, 8908), (21, 8956), (33, 9025), (38, 9052), (48, 9088), (50, 9109), (57, 9139), (72, 9217), (74, 9223), (82, 9244),

Gene: Ravana_20 Start: 12451, Stop: 12828, Start Num: 11
Candidate Starts for Ravana_20:
(Start: 11 @12451 has 642 MA's), (26, 12553), (45, 12643), (76, 12796), (84, 12814), (86, 12817),

Gene: ReMo_20 Start: 12490, Stop: 12867, Start Num: 11
Candidate Starts for ReMo_20:

(Start: 11 @12490 has 642 MA's), (26, 12592), (45, 12682), (76, 12835), (84, 12853), (86, 12856),

Gene: Reba_20 Start: 12535, Stop: 12906, Start Num: 11
Candidate Starts for Reba_20:
(Start: 11 @12535 has 642 MA's), (13, 12559), (22, 12619), (26, 12637), (57, 12787), (74, 12868), (76, 12874), (84, 12892), (86, 12895),

Gene: Rebeuca_18 Start: 12632, Stop: 13006, Start Num: 11
Candidate Starts for Rebeuca_18:
(Start: 11 @12632 has 642 MA's), (26, 12734), (38, 12800), (44, 12821), (57, 12887), (74, 12968), (76, 12974), (86, 12995),

Gene: RedRock_21 Start: 15306, Stop: 15683, Start Num: 11
Candidate Starts for RedRock_21:
(Start: 11 @15306 has 642 MA's), (14, 15333), (18, 15369), (26, 15408), (48, 15510), (83, 15666), (84, 15669), (86, 15672),

Gene: Refuge_21 Start: 15689, Stop: 16066, Start Num: 11
Candidate Starts for Refuge_21:
(Start: 11 @15689 has 642 MA's), (15, 15719), (17, 15749), (18, 15752), (26, 15791), (31, 15821), (48, 15893), (50, 15914), (67, 16010), (74, 16028), (84, 16052),

Gene: Relief_17 Start: 12686, Stop: 13042, Start Num: 11
Candidate Starts for Relief_17:
(Start: 11 @12686 has 642 MA's), (26, 12788), (38, 12836), (44, 12857), (57, 12923), (62, 12959), (74, 13004), (86, 13031),

Gene: Remus_20 Start: 12451, Stop: 12828, Start Num: 11
Candidate Starts for Remus_20:
(Start: 11 @12451 has 642 MA's), (26, 12553), (45, 12643), (76, 12796), (84, 12814), (86, 12817),

Gene: ResDef_18 Start: 12884, Stop: 13258, Start Num: 11
Candidate Starts for ResDef_18:
(Start: 11 @12884 has 642 MA's), (13, 12908), (26, 12986), (38, 13052), (44, 13073), (57, 13139), (74, 13220), (84, 13244),

Gene: Retro23_18 Start: 13469, Stop: 13846, Start Num: 11
Candidate Starts for Retro23_18:
(Start: 11 @13469 has 642 MA's), (15, 13499), (16, 13502), (18, 13532), (26, 13571), (48, 13673), (74, 13808), (84, 13832), (86, 13835),

Gene: RexFury_14 Start: 8947, Stop: 9327, Start Num: 11
Candidate Starts for RexFury_14:
(Start: 11 @8947 has 642 MA's), (13, 8971), (21, 9019), (38, 9115), (48, 9151), (50, 9172), (57, 9202), (66, 9262), (72, 9280), (74, 9286), (82, 9307),

Gene: Rhodalysa_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for Rhodalysa_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: RhynO_18 Start: 12608, Stop: 12982, Start Num: 11
Candidate Starts for RhynO_18:

(Start: 11 @12608 has 642 MA's), (20, 12677), (26, 12710), (44, 12797), (57, 12863), (74, 12944), (80, 12956), (86, 12971),

Gene: Rifter_21 Start: 13451, Stop: 13828, Start Num: 11
Candidate Starts for Rifter_21:
(Start: 11 @13451 has 642 MA's), (14, 13478), (17, 13511), (18, 13514), (26, 13553), (53, 13694), (74, 13790), (84, 13814), (86, 13817),

Gene: Roary_14 Start: 11362, Stop: 11736, Start Num: 10
Candidate Starts for Roary_14:
(Start: 10 @11362 has 52 MA's), (38, 11530), (45, 11554), (48, 11566), (57, 11617), (65, 11674), (66, 11677), (74, 11698), (83, 11719), (84, 11722),

Gene: RockieBear_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for RockieBear_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Rocksand_17 Start: 12684, Stop: 13040, Start Num: 11
Candidate Starts for Rocksand_17:
(Start: 11 @12684 has 642 MA's), (26, 12786), (38, 12834), (44, 12855), (57, 12921), (62, 12957), (74, 13002), (86, 13029),

Gene: Rockstar_17 Start: 12236, Stop: 12610, Start Num: 11
Candidate Starts for Rockstar_17:
(Start: 11 @12236 has 642 MA's), (26, 12338), (38, 12404), (44, 12425), (57, 12491), (74, 12572), (76, 12578), (84, 12596),

Gene: Roimos_17 Start: 12312, Stop: 12686, Start Num: 11
Candidate Starts for Roimos_17:
(Start: 11 @12312 has 642 MA's), (26, 12414), (38, 12480), (44, 12501), (57, 12567), (74, 12648), (76, 12654), (84, 12672),

Gene: Roksolana_21 Start: 13479, Stop: 13856, Start Num: 11
Candidate Starts for Roksolana_21:
(Start: 11 @13479 has 642 MA's), (14, 13506), (16, 13512), (17, 13539), (18, 13542), (26, 13581), (53, 13722), (74, 13818), (84, 13842), (86, 13845),

Gene: Romney_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Romney_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Roosevelt_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Roosevelt_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Rosa24_16 Start: 12661, Stop: 13017, Start Num: 11
Candidate Starts for Rosa24_16:
(Start: 11 @12661 has 642 MA's), (26, 12763), (38, 12811), (44, 12832), (57, 12898), (62, 12934), (74, 12979), (86, 13006),

Gene: Rosalind_20 Start: 12612, Stop: 12989, Start Num: 11
Candidate Starts for Rosalind_20:
(Start: 11 @12612 has 642 MA's), (26, 12714), (45, 12804), (76, 12957), (84, 12975), (86, 12978),

Gene: Rowdy_20 Start: 12519, Stop: 12893, Start Num: 11
Candidate Starts for Rowdy_20:
(Start: 11 @12519 has 642 MA's), (20, 12588), (26, 12621), (44, 12708), (57, 12774), (74, 12855), (80, 12867), (86, 12882),

Gene: Ruin_17 Start: 12684, Stop: 13040, Start Num: 11
Candidate Starts for Ruin_17:
(Start: 11 @12684 has 642 MA's), (26, 12786), (38, 12834), (44, 12855), (57, 12921), (62, 12957), (74, 13002), (86, 13029),

Gene: Rummer_19 Start: 12880, Stop: 13251, Start Num: 11
Candidate Starts for Rummer_19:
(Start: 11 @12880 has 642 MA's), (13, 12904), (22, 12964), (26, 12982), (57, 13132), (74, 13213), (76, 13219), (84, 13237), (86, 13240),

Gene: Ruotula_16 Start: 13164, Stop: 13610, Start Num: 11
Candidate Starts for Ruotula_16:
(Start: 11 @13164 has 642 MA's), (13, 13188), (74, 13497), (88, 13572),

Gene: RyeScarlet_19 Start: 14144, Stop: 14521, Start Num: 11
Candidate Starts for RyeScarlet_19:
(Start: 11 @14144 has 642 MA's), (26, 14246), (67, 14465), (74, 14483), (76, 14489),

Gene: Sabertooth_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for Sabertooth_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: Sabia_19 Start: 12789, Stop: 13160, Start Num: 11
Candidate Starts for Sabia_19:
(Start: 11 @12789 has 642 MA's), (13, 12813), (22, 12873), (26, 12891), (57, 13041), (74, 13122), (76, 13128), (84, 13146), (86, 13149),

Gene: Sabinator_19 Start: 12794, Stop: 13165, Start Num: 11
Candidate Starts for Sabinator_19:
(Start: 11 @12794 has 642 MA's), (13, 12818), (22, 12878), (26, 12896), (57, 13046), (74, 13127), (76, 13133), (84, 13151), (86, 13154),

Gene: Sachima_19 Start: 14140, Stop: 14517, Start Num: 11
Candidate Starts for Sachima_19:
(Start: 11 @14140 has 642 MA's), (26, 14242), (67, 14461), (74, 14479), (76, 14485),

Gene: Saintus_14 Start: 11377, Stop: 11751, Start Num: 10
Candidate Starts for Saintus_14:
(Start: 10 @11377 has 52 MA's), (38, 11545), (45, 11569), (48, 11581), (57, 11632), (65, 11689), (66, 11692), (74, 11713), (83, 11734), (84, 11737),

Gene: Salz_18 Start: 13925, Stop: 14302, Start Num: 11
Candidate Starts for Salz_18:

(Start: 11 @13925 has 642 MA's), (13, 13949), (18, 13988), (26, 14027), (28, 14033), (83, 14285), (84, 14288), (86, 14291),

Gene: Saskia_18 Start: 13928, Stop: 14305, Start Num: 11
Candidate Starts for Saskia_18:
(Start: 11 @13928 has 642 MA's), (13, 13952), (18, 13991), (26, 14030), (28, 14036), (83, 14288), (84, 14291), (86, 14294),

Gene: SaturnRing_17 Start: 12343, Stop: 12717, Start Num: 11
Candidate Starts for SaturnRing_17:
(Start: 11 @12343 has 642 MA's), (26, 12445), (38, 12511), (44, 12532), (57, 12598), (74, 12679), (76, 12685), (84, 12703),

Gene: Scamp_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Scamp_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Scherzo_19 Start: 14173, Stop: 14550, Start Num: 11
Candidate Starts for Scherzo_19:
(Start: 11 @14173 has 642 MA's), (26, 14275), (67, 14494), (74, 14512), (76, 14518),

Gene: Scorpia_15 Start: 11610, Stop: 11984, Start Num: 10
Candidate Starts for Scorpia_15:
(Start: 10 @11610 has 52 MA's), (13, 11634), (15, 11640), (45, 11802), (57, 11865), (65, 11922), (66, 11925), (83, 11967), (84, 11970), (86, 11973),

Gene: Scout_17 Start: 11643, Stop: 12017, Start Num: 11
Candidate Starts for Scout_17:
(Start: 11 @11643 has 642 MA's), (26, 11745), (38, 11811), (44, 11832), (57, 11898), (74, 11979), (76, 11985), (84, 12003),

Gene: SemperFi_20 Start: 13746, Stop: 14123, Start Num: 11
Candidate Starts for SemperFi_20:
(Start: 11 @13746 has 642 MA's), (15, 13776), (16, 13779), (18, 13809), (26, 13848), (48, 13950), (74, 14085), (76, 14091), (84, 14109),

Gene: SenorClean_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for SenorClean_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Serenity_17 Start: 12293, Stop: 12670, Start Num: 11
Candidate Starts for Serenity_17:
(Start: 11 @12293 has 642 MA's), (14, 12320), (16, 12326), (17, 12353), (18, 12356), (26, 12395), (48, 12497), (74, 12632), (83, 12653), (84, 12656), (86, 12659),

Gene: Severus_16 Start: 10547, Stop: 10921, Start Num: 11
Candidate Starts for Severus_16:
(Start: 11 @10547 has 642 MA's), (26, 10649), (38, 10715), (44, 10736), (46, 10742), (57, 10802), (62, 10838), (66, 10862), (86, 10910),

Gene: Shaka_17 Start: 12688, Stop: 13044, Start Num: 11

Candidate Starts for Shaka_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Sham4_18 Start: 13931, Stop: 14308, Start Num: 11
Candidate Starts for Sham4_18:
(Start: 11 @13931 has 642 MA's), (13, 13955), (18, 13994), (26, 14033), (28, 14039), (83, 14291), (84, 14294), (86, 14297),

Gene: Shapes_20 Start: 12519, Stop: 12893, Start Num: 11
Candidate Starts for Shapes_20:
(Start: 11 @12519 has 642 MA's), (20, 12588), (26, 12621), (44, 12708), (57, 12774), (74, 12855), (80, 12867), (86, 12882),

Gene: ShayRa_21 Start: 12612, Stop: 12989, Start Num: 11
Candidate Starts for ShayRa_21:
(Start: 11 @12612 has 642 MA's), (26, 12714), (45, 12804), (76, 12957), (84, 12975), (86, 12978),

Gene: SheaKeira_18 Start: 12349, Stop: 12726, Start Num: 11
Candidate Starts for SheaKeira_18:
(Start: 11 @12349 has 642 MA's), (26, 12451), (31, 12481), (61, 12637), (67, 12670), (74, 12688), (84, 12712), (86, 12715),

Gene: Sheen_19 Start: 14394, Stop: 14768, Start Num: 11
Candidate Starts for Sheen_19:
(Start: 11 @14394 has 642 MA's), (26, 14496), (38, 14562), (40, 14568), (44, 14583), (57, 14649), (62, 14685), (74, 14730), (76, 14736), (84, 14754),

Gene: SheldonCooper_18 Start: 13001, Stop: 13357, Start Num: 11
Candidate Starts for SheldonCooper_18:
(Start: 11 @13001 has 642 MA's), (26, 13103), (38, 13151), (44, 13172), (57, 13238), (62, 13274), (74, 13319), (86, 13346),

Gene: Shep_17 Start: 11598, Stop: 11972, Start Num: 11
Candidate Starts for Shep_17:
(Start: 11 @11598 has 642 MA's), (26, 11700), (38, 11766), (44, 11787), (57, 11853), (74, 11934), (76, 11940), (84, 11958),

Gene: Shuman_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for Shuman_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (33, 9057), (38, 9084), (57, 9171), (72, 9249), (74, 9255), (82, 9276),

Gene: Shygu2_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for Shygu2_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (80, 13015), (86, 13030),

Gene: Skadoosh_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Skadoosh_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Skipitt_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for Skipitt_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: Sknot_18 Start: 13422, Stop: 13799, Start Num: 11
Candidate Starts for Sknot_18:
(Start: 11 @13422 has 642 MA's), (14, 13449), (16, 13455), (18, 13485), (26, 13524), (31, 13554), (48, 13626), (74, 13761), (83, 13782), (84, 13785), (86, 13788),

Gene: Smeadley_14 Start: 11395, Stop: 11769, Start Num: 10
Candidate Starts for Smeadley_14:
(Start: 10 @11395 has 52 MA's), (38, 11563), (45, 11587), (48, 11599), (57, 11650), (65, 11707), (66, 11710), (74, 11731), (83, 11752), (84, 11755),

Gene: Smeagan_20 Start: 13831, Stop: 14208, Start Num: 11
Candidate Starts for Smeagan_20:
(Start: 11 @13831 has 642 MA's), (15, 13861), (16, 13864), (18, 13894), (26, 13933), (61, 14119), (74, 14170), (84, 14194), (86, 14197),

Gene: SmellyB_21 Start: 13484, Stop: 13861, Start Num: 11
Candidate Starts for SmellyB_21:
(Start: 11 @13484 has 642 MA's), (14, 13511), (16, 13517), (17, 13544), (18, 13547), (26, 13586), (74, 13823), (84, 13847), (86, 13850),

Gene: Smoothie_38 Start: 15766, Stop: 16146, Start Num: 11
Candidate Starts for Smoothie_38:
(Start: 11 @15766 has 642 MA's), (14, 15793), (18, 15826), (75, 16102),

Gene: SnapTap_18 Start: 13318, Stop: 13695, Start Num: 11
Candidate Starts for SnapTap_18:
(Start: 11 @13318 has 642 MA's), (15, 13348), (16, 13351), (18, 13381), (26, 13420), (48, 13522), (74, 13657), (76, 13663), (84, 13681),

Gene: Snape_18 Start: 13931, Stop: 14308, Start Num: 11
Candidate Starts for Snape_18:
(Start: 11 @13931 has 642 MA's), (13, 13955), (18, 13994), (26, 14033), (28, 14039), (83, 14291), (84, 14294), (86, 14297),

Gene: Snickers_19 Start: 12770, Stop: 13141, Start Num: 11
Candidate Starts for Snickers_19:
(Start: 11 @12770 has 642 MA's), (13, 12794), (22, 12854), (26, 12872), (57, 13022), (74, 13103), (76, 13109), (84, 13127), (86, 13130),

Gene: SoYo_19 Start: 12707, Stop: 13078, Start Num: 11
Candidate Starts for SoYo_19:
(Start: 11 @12707 has 642 MA's), (13, 12731), (22, 12791), (26, 12809), (57, 12959), (74, 13040), (76, 13046), (84, 13064), (86, 13067),

Gene: SoilDragon_19 Start: 12479, Stop: 12850, Start Num: 11
Candidate Starts for SoilDragon_19:
(Start: 11 @12479 has 642 MA's), (13, 12503), (22, 12563), (26, 12581), (57, 12731), (74, 12812), (76, 12818), (84, 12836), (86, 12839),

Gene: SororFago_17 Start: 12501, Stop: 12881, Start Num: 9
Candidate Starts for SororFago_17:
(Start: 9 @12501 has 5 MA's), (16, 12537), (17, 12564), (18, 12567), (26, 12606), (50, 12729), (84, 12867), (86, 12870),

Gene: Soshari_21 Start: 12879, Stop: 13250, Start Num: 11
Candidate Starts for Soshari_21:
(Start: 11 @12879 has 642 MA's), (13, 12903), (22, 12963), (26, 12981), (57, 13131), (74, 13212), (76, 13218), (84, 13236), (86, 13239),

Gene: Soups_20 Start: 12612, Stop: 12989, Start Num: 11
Candidate Starts for Soups_20:
(Start: 11 @12612 has 642 MA's), (26, 12714), (45, 12804), (76, 12957), (84, 12975), (86, 12978),

Gene: Sparxx_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for Sparxx_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: SpeedDemon_200 Start: 13549, Stop: 13944, Start Num: 11
Candidate Starts for SpeedDemon_200:
(Start: 11 @13549 has 642 MA's), (34, 13714), (41, 13738), (47, 13762),

Gene: Spike509_19 Start: 12880, Stop: 13251, Start Num: 11
Candidate Starts for Spike509_19:
(Start: 11 @12880 has 642 MA's), (13, 12904), (22, 12964), (26, 12982), (57, 13132), (74, 13213), (76, 13219), (84, 13237), (86, 13240),

Gene: Spino_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Spino_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Spouty_19 Start: 14170, Stop: 14547, Start Num: 11
Candidate Starts for Spouty_19:
(Start: 11 @14170 has 642 MA's), (26, 14272), (67, 14491), (74, 14509), (76, 14515),

Gene: StCroix_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for StCroix_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: Stagni_19 Start: 12798, Stop: 13169, Start Num: 11
Candidate Starts for Stagni_19:
(Start: 11 @12798 has 642 MA's), (13, 12822), (22, 12882), (26, 12900), (57, 13050), (74, 13131), (76, 13137), (84, 13155), (86, 13158),

Gene: StarStuff_21 Start: 13272, Stop: 13646, Start Num: 11
Candidate Starts for StarStuff_21:
(Start: 11 @13272 has 642 MA's), (14, 13299), (16, 13305), (18, 13335), (26, 13374), (32, 13410), (45, 13461), (48, 13473), (66, 13584), (74, 13608), (84, 13632), (86, 13635),

Gene: Stasia_18 Start: 13124, Stop: 13480, Start Num: 11
Candidate Starts for Stasia_18:
(Start: 11 @13124 has 642 MA's), (26, 13226), (38, 13274), (44, 13295), (57, 13361), (62, 13397), (80, 13454), (86, 13469),

Gene: SteMason_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for SteMason_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Steamy_19 Start: 13919, Stop: 14296, Start Num: 11
Candidate Starts for Steamy_19:
(Start: 11 @13919 has 642 MA's), (15, 13949), (17, 13979), (18, 13982), (26, 14021), (31, 14051), (44, 14108), (48, 14123), (67, 14240), (74, 14258), (76, 14264), (84, 14282), (86, 14285),

Gene: StepMih_19 Start: 12789, Stop: 13160, Start Num: 11
Candidate Starts for StepMih_19:
(Start: 11 @12789 has 642 MA's), (13, 12813), (22, 12873), (26, 12891), (57, 13041), (74, 13122), (76, 13128), (84, 13146), (86, 13149),

Gene: Stephig9_14 Start: 11376, Stop: 11750, Start Num: 10
Candidate Starts for Stephig9_14:
(Start: 10 @11376 has 52 MA's), (38, 11544), (45, 11568), (48, 11580), (57, 11631), (65, 11688), (66, 11691), (74, 11712), (83, 11733), (84, 11736),

Gene: Stink_18 Start: 12973, Stop: 13329, Start Num: 11
Candidate Starts for Stink_18:
(Start: 11 @12973 has 642 MA's), (26, 13075), (38, 13123), (44, 13144), (57, 13210), (62, 13246), (80, 13303), (86, 13318),

Gene: Strosahl_20 Start: 12451, Stop: 12828, Start Num: 11
Candidate Starts for Strosahl_20:
(Start: 11 @12451 has 642 MA's), (26, 12553), (45, 12643), (76, 12796), (84, 12814), (86, 12817),

Gene: Sultana_17 Start: 12689, Stop: 13045, Start Num: 11
Candidate Starts for Sultana_17:
(Start: 11 @12689 has 642 MA's), (26, 12791), (38, 12839), (44, 12860), (57, 12926), (62, 12962), (74, 13007), (86, 13034),

Gene: Sunhee_17 Start: 12538, Stop: 12915, Start Num: 11
Candidate Starts for Sunhee_17:
(Start: 11 @12538 has 642 MA's), (16, 12571), (17, 12598), (18, 12601), (26, 12640), (50, 12763), (84, 12901), (86, 12904),

Gene: SuperAwesome_21 Start: 13475, Stop: 13852, Start Num: 11
Candidate Starts for SuperAwesome_21:
(Start: 11 @13475 has 642 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (26, 13577), (74, 13814), (84, 13838), (86, 13841),

Gene: SuperCallie99_21 Start: 13474, Stop: 13851, Start Num: 11
Candidate Starts for SuperCallie99_21:
(Start: 11 @13474 has 642 MA's), (14, 13501), (17, 13534), (18, 13537), (26, 13576), (53, 13717), (74, 13813), (84, 13837), (86, 13840),

Gene: Superchunk_17 Start: 12019, Stop: 12396, Start Num: 11
Candidate Starts for Superchunk_17:
(Start: 11 @12019 has 642 MA's), (14, 12046), (16, 12052), (18, 12082), (26, 12121), (74, 12358), (84, 12382), (86, 12385),

Gene: Swann_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for Swann_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: SweetiePie_18 Start: 13318, Stop: 13695, Start Num: 11
Candidate Starts for SweetiePie_18:
(Start: 11 @13318 has 642 MA's), (15, 13348), (16, 13351), (18, 13381), (26, 13420), (48, 13522), (74, 13657), (76, 13663), (84, 13681),

Gene: SwirlSquare_19 Start: 12198, Stop: 12575, Start Num: 11
Candidate Starts for SwirlSquare_19:
(Start: 11 @12198 has 642 MA's), (14, 12225), (18, 12261), (26, 12300), (48, 12402), (66, 12513), (74, 12537), (84, 12561), (86, 12564),

Gene: Swirley_14 Start: 11770, Stop: 12144, Start Num: 10
Candidate Starts for Swirley_14:
(Start: 10 @11770 has 52 MA's), (13, 11794), (15, 11800), (38, 11938), (45, 11962), (57, 12025), (66, 12085), (74, 12106), (83, 12127), (84, 12130), (86, 12133),

Gene: Switzerland_20 Start: 12605, Stop: 12982, Start Num: 11
Candidate Starts for Switzerland_20:
(Start: 11 @12605 has 642 MA's), (26, 12707), (45, 12797), (76, 12950), (84, 12968), (86, 12971),

Gene: SydNat_14 Start: 11877, Stop: 12251, Start Num: 10
Candidate Starts for SydNat_14:
(Start: 10 @11877 has 52 MA's), (13, 11901), (15, 11907), (45, 12069), (57, 12132), (60, 12162), (66, 12192), (74, 12213), (83, 12234), (84, 12237), (86, 12240),

Gene: TNguyen7_17 Start: 12313, Stop: 12687, Start Num: 11
Candidate Starts for TNguyen7_17:
(Start: 11 @12313 has 642 MA's), (26, 12415), (38, 12481), (44, 12502), (57, 12568), (74, 12649), (76, 12655), (84, 12673),

Gene: TWAMP_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for TWAMP_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: Tailonex_15 Start: 12099, Stop: 12488, Start Num: 11
Candidate Starts for Tailonex_15:
(Start: 11 @12099 has 642 MA's), (25, 12198), (30, 12225), (57, 12354), (77, 12447), (83, 12459),

Gene: Takoda_14 Start: 8876, Stop: 9256, Start Num: 11
Candidate Starts for Takoda_14:
(Start: 11 @8876 has 642 MA's), (13, 8900), (21, 8948), (33, 9017), (38, 9044), (57, 9131), (72, 9209), (74, 9215), (82, 9236),

Gene: Taquarus_17 Start: 12691, Stop: 13047, Start Num: 11
Candidate Starts for Taquarus_17:
(Start: 11 @12691 has 642 MA's), (26, 12793), (38, 12841), (44, 12862), (57, 12928), (62, 12964), (74, 13009), (86, 13036),

Gene: Target_18 Start: 13654, Stop: 14031, Start Num: 9
Candidate Starts for Target_18:
(Start: 5 @13609 has 1 MA's), (Start: 9 @13654 has 5 MA's), (13, 13681), (26, 13759), (38, 13825), (45, 13849), (57, 13912), (65, 13969), (78, 14002), (83, 14014), (84, 14017), (86, 14020),

Gene: TarsusIV_18 Start: 13418, Stop: 13795, Start Num: 11
Candidate Starts for TarsusIV_18:
(Start: 11 @13418 has 642 MA's), (14, 13445), (18, 13481), (26, 13520), (48, 13622), (61, 13706), (67, 13739), (74, 13757), (84, 13781), (86, 13784),

Gene: Tarynearal_13 Start: 11797, Stop: 12171, Start Num: 10
Candidate Starts for Tarynearal_13:
(Start: 10 @11797 has 52 MA's), (13, 11821), (15, 11827), (38, 11965), (45, 11989), (57, 12052), (66, 12112), (74, 12133), (83, 12154), (84, 12157), (86, 12160),

Gene: Taurus_19 Start: 12794, Stop: 13165, Start Num: 11
Candidate Starts for Taurus_19:
(Start: 11 @12794 has 642 MA's), (13, 12818), (22, 12878), (26, 12896), (57, 13046), (74, 13127), (76, 13133), (84, 13151), (86, 13154),

Gene: Temprado_21 Start: 13480, Stop: 13857, Start Num: 11
Candidate Starts for Temprado_21:
(Start: 11 @13480 has 642 MA's), (14, 13507), (16, 13513), (17, 13540), (18, 13543), (26, 13582), (74, 13819), (84, 13843), (86, 13846),

Gene: Terrific_20 Start: 13876, Stop: 14253, Start Num: 11
Candidate Starts for Terrific_20:
(Start: 11 @13876 has 642 MA's), (14, 13903), (16, 13909), (18, 13939), (26, 13978), (31, 14008), (48, 14080), (74, 14215), (83, 14236), (84, 14239), (86, 14242),

Gene: Texage_17 Start: 12884, Stop: 13258, Start Num: 11
Candidate Starts for Texage_17:
(Start: 11 @12884 has 642 MA's), (13, 12908), (26, 12986), (38, 13052), (44, 13073), (57, 13139), (74, 13220), (84, 13244),

Gene: Thanksgivukkah_17 Start: 12692, Stop: 13048, Start Num: 11
Candidate Starts for Thanksgivukkah_17:
(Start: 11 @12692 has 642 MA's), (26, 12794), (38, 12842), (44, 12863), (57, 12929), (62, 12965), (74, 13010), (86, 13037),

Gene: Theia_13 Start: 11736, Stop: 12110, Start Num: 10
Candidate Starts for Theia_13:
(Start: 10 @11736 has 52 MA's), (13, 11760), (15, 11766), (38, 11904), (45, 11928), (57, 11991), (66, 12051), (74, 12072), (83, 12093), (84, 12096), (86, 12099),

Gene: Tiffany_19 Start: 12690, Stop: 13061, Start Num: 11
Candidate Starts for Tiffany_19:

(Start: 11 @12690 has 642 MA's), (13, 12714), (22, 12774), (26, 12792), (57, 12942), (74, 13023), (76, 13029), (84, 13047), (86, 13050),

Gene: Tiger_14 Start: 11623, Stop: 11997, Start Num: 10
Candidate Starts for Tiger_14:
(Start: 10 @11623 has 52 MA's), (13, 11647), (15, 11653), (38, 11791), (45, 11815), (57, 11878), (66, 11938), (74, 11959), (83, 11980), (84, 11983), (86, 11986),

Gene: Timothy_18 Start: 13928, Stop: 14305, Start Num: 11
Candidate Starts for Timothy_18:
(Start: 11 @13928 has 642 MA's), (13, 13952), (18, 13991), (26, 14030), (28, 14036), (83, 14288), (84, 14291), (86, 14294),

Gene: Timshel_18 Start: 14276, Stop: 14650, Start Num: 11
Candidate Starts for Timshel_18:
(Start: 11 @14276 has 642 MA's), (26, 14378), (38, 14444), (39, 14447), (44, 14465), (45, 14468), (46, 14471), (57, 14531), (59, 14546), (74, 14612), (80, 14624), (84, 14636), (86, 14639),

Gene: TinaFeyge_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for TinaFeyge_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: TinyPebbles_19 Start: 12879, Stop: 13250, Start Num: 11
Candidate Starts for TinyPebbles_19:
(Start: 11 @12879 has 642 MA's), (13, 12903), (22, 12963), (26, 12981), (57, 13131), (74, 13212), (76, 13218), (84, 13236), (86, 13239),

Gene: TinyTimmy_18 Start: 13971, Stop: 14348, Start Num: 11
Candidate Starts for TinyTimmy_18:
(Start: 11 @13971 has 642 MA's), (13, 13995), (18, 14034), (26, 14073), (28, 14079), (83, 14331), (84, 14334), (86, 14337),

Gene: Tinybot_16 Start: 12666, Stop: 13022, Start Num: 11
Candidate Starts for Tinybot_16:
(Start: 11 @12666 has 642 MA's), (26, 12768), (38, 12816), (44, 12837), (57, 12903), (62, 12939), (74, 12984), (86, 13011),

Gene: TipsytheTRex_17 Start: 12428, Stop: 12805, Start Num: 11
Candidate Starts for TipsytheTRex_17:
(Start: 11 @12428 has 642 MA's), (14, 12455), (16, 12461), (17, 12488), (18, 12491), (26, 12530), (48, 12632), (74, 12767), (83, 12788), (84, 12791), (86, 12794),

Gene: TiroTheta9_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for TiroTheta9_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: Toaka_17 Start: 12502, Stop: 12879, Start Num: 11
Candidate Starts for Toaka_17:
(Start: 11 @12502 has 642 MA's), (14, 12529), (18, 12565), (26, 12604), (74, 12841), (86, 12868),

Gene: Todacoro_18 Start: 12884, Stop: 13258, Start Num: 11

Candidate Starts for Todacoro_18:
(Start: 11 @12884 has 642 MA's), (13, 12908), (26, 12986), (38, 13052), (44, 13073), (57, 13139), (74, 13220), (84, 13244),

Gene: Tomathan_21 Start: 13272, Stop: 13646, Start Num: 11
Candidate Starts for Tomathan_21:
(Start: 11 @13272 has 642 MA's), (14, 13299), (16, 13305), (18, 13335), (26, 13374), (32, 13410), (45, 13461), (48, 13473), (66, 13584), (74, 13608), (84, 13632), (86, 13635),

Gene: ToneTone_19 Start: 13392, Stop: 13769, Start Num: 11
Candidate Starts for ToneTone_19:
(Start: 11 @13392 has 642 MA's), (14, 13419), (16, 13425), (17, 13452), (18, 13455), (26, 13494), (74, 13731), (84, 13755), (86, 13758),

Gene: Toniann_37 Start: 15711, Stop: 16091, Start Num: 11
Candidate Starts for Toniann_37:
(Start: 11 @15711 has 642 MA's), (14, 15738), (18, 15771), (75, 16047),

Gene: Topanga_17 Start: 12585, Stop: 12959, Start Num: 11
Candidate Starts for Topanga_17:
(Start: 11 @12585 has 642 MA's), (26, 12687), (38, 12753), (44, 12774), (57, 12840), (62, 12876), (74, 12921), (86, 12948),

Gene: Toro_20 Start: 14336, Stop: 14710, Start Num: 11
Candidate Starts for Toro_20:
(Start: 11 @14336 has 642 MA's), (26, 14438), (38, 14504), (40, 14510), (44, 14525), (57, 14591), (62, 14627), (74, 14672), (76, 14678), (84, 14696),

Gene: Towmatter_18 Start: 11903, Stop: 12289, Start Num: 11
Candidate Starts for Towmatter_18:
(Start: 11 @11903 has 642 MA's), (42, 12086),

Gene: Travvers_21 Start: 13272, Stop: 13646, Start Num: 11
Candidate Starts for Travvers_21:
(Start: 11 @13272 has 642 MA's), (14, 13299), (16, 13305), (18, 13335), (26, 13374), (32, 13410), (45, 13461), (48, 13473), (66, 13584), (74, 13608), (84, 13632), (86, 13635),

Gene: Trike_15 Start: 10555, Stop: 10929, Start Num: 11
Candidate Starts for Trike_15:
(Start: 11 @10555 has 642 MA's), (26, 10657), (38, 10723), (44, 10744), (46, 10750), (57, 10810), (62, 10846), (66, 10870), (74, 10891), (86, 10918),

Gene: Tristan_19 Start: 15133, Stop: 15510, Start Num: 11
Candidate Starts for Tristan_19:
(Start: 11 @15133 has 642 MA's), (17, 15193), (18, 15196), (26, 15235), (48, 15337), (63, 15427), (66, 15448), (74, 15472),

Gene: Trixie_21 Start: 15031, Stop: 15408, Start Num: 11
Candidate Starts for Trixie_21:
(Start: 11 @15031 has 642 MA's), (14, 15058), (15, 15061), (16, 15064), (18, 15094), (26, 15133), (32, 15169), (48, 15235), (61, 15319), (74, 15370), (76, 15376), (84, 15394),

Gene: Trooper_18 Start: 13209, Stop: 13586, Start Num: 11

Candidate Starts for Trooper_18:
(Start: 11 @13209 has 642 MA's), (14, 13236), (16, 13242), (18, 13272), (26, 13311), (31, 13341), (38, 13377), (48, 13413), (61, 13497), (74, 13548), (84, 13572), (86, 13575),

Gene: TroyPia_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for TroyPia_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Tubs_19 Start: 14140, Stop: 14517, Start Num: 11
Candidate Starts for Tubs_19:
(Start: 11 @14140 has 642 MA's), (26, 14242), (67, 14461), (74, 14479), (76, 14485),

Gene: Tucker_21 Start: 13478, Stop: 13855, Start Num: 11
Candidate Starts for Tucker_21:
(Start: 11 @13478 has 642 MA's), (14, 13505), (17, 13538), (18, 13541), (26, 13580), (53, 13721), (74, 13817), (84, 13841), (86, 13844),

Gene: Turbido_20 Start: 13858, Stop: 14235, Start Num: 11
Candidate Starts for Turbido_20:
(Start: 11 @13858 has 642 MA's), (15, 13888), (16, 13891), (18, 13921), (26, 13960), (61, 14146), (74, 14197), (84, 14221), (86, 14224),

Gene: Twigg_14 Start: 11769, Stop: 12143, Start Num: 10
Candidate Starts for Twigg_14:
(Start: 10 @11769 has 52 MA's), (13, 11793), (15, 11799), (38, 11937), (45, 11961), (57, 12024), (66, 12084), (74, 12105), (83, 12126), (84, 12129), (86, 12132),

Gene: Twister_17 Start: 12484, Stop: 12858, Start Num: 11
Candidate Starts for Twister_17:
(Start: 11 @12484 has 642 MA's), (26, 12586), (38, 12652), (44, 12673), (57, 12739), (62, 12775), (74, 12820), (76, 12826), (86, 12847),

Gene: TygerBlood_17 Start: 12687, Stop: 13043, Start Num: 11
Candidate Starts for TygerBlood_17:
(Start: 11 @12687 has 642 MA's), (26, 12789), (38, 12837), (44, 12858), (57, 12924), (62, 12960), (74, 13005), (86, 13032),

Gene: Ugenie5_16 Start: 14173, Stop: 14550, Start Num: 11
Candidate Starts for Ugenie5_16:
(Start: 11 @14173 has 642 MA's), (26, 14275), (67, 14494), (74, 14512), (76, 14518),

Gene: UhSalsa_14 Start: 8916, Stop: 9296, Start Num: 11
Candidate Starts for UhSalsa_14:
(Start: 11 @8916 has 642 MA's), (13, 8940), (21, 8988), (38, 9084), (48, 9120), (50, 9141), (57, 9171), (66, 9231), (72, 9249), (74, 9255), (82, 9276),

Gene: Ulysses_16 Start: 12409, Stop: 12765, Start Num: 11
Candidate Starts for Ulysses_16:
(Start: 11 @12409 has 642 MA's), (26, 12511), (38, 12559), (44, 12580), (57, 12646), (62, 12682), (74, 12727), (86, 12754),

Gene: UnionJack_14 Start: 11349, Stop: 11723, Start Num: 10

Candidate Starts for UnionJack_14:
(Start: 10 @11349 has 52 MA's), (13, 11373), (15, 11379), (45, 11541), (57, 11604), (65, 11661), (66, 11664), (74, 11685), (83, 11706), (84, 11709), (86, 11712),

Gene: Updawg_20 Start: 13864, Stop: 14241, Start Num: 11
Candidate Starts for Updawg_20:
(Start: 11 @13864 has 642 MA's), (14, 13891), (16, 13897), (18, 13927), (26, 13966), (31, 13996), (48, 14068), (74, 14203), (83, 14224), (84, 14227), (86, 14230),

Gene: VA6_18 Start: 13376, Stop: 13753, Start Num: 11
Candidate Starts for VA6_18:
(Start: 11 @13376 has 642 MA's), (15, 13406), (16, 13409), (18, 13439), (26, 13478), (74, 13715), (84, 13739), (86, 13742),

Gene: VC3_21 Start: 13381, Stop: 13758, Start Num: 11
Candidate Starts for VC3_21:
(Start: 11 @13381 has 642 MA's), (14, 13408), (16, 13414), (18, 13444), (26, 13483), (36, 13540), (48, 13585), (53, 13624), (60, 13666), (74, 13720), (83, 13741), (84, 13744), (86, 13747),

Gene: Vanisoa_17 Start: 12228, Stop: 12605, Start Num: 11
Candidate Starts for Vanisoa_17:
(Start: 11 @12228 has 642 MA's), (17, 12288), (26, 12330), (67, 12549), (74, 12567), (76, 12573), (84, 12591), (86, 12594),

Gene: Veracruz_17 Start: 12884, Stop: 13258, Start Num: 11
Candidate Starts for Veracruz_17:
(Start: 11 @12884 has 642 MA's), (13, 12908), (26, 12986), (38, 13052), (44, 13073), (57, 13139), (74, 13220), (84, 13244),

Gene: Vix_19 Start: 12878, Stop: 13249, Start Num: 11
Candidate Starts for Vix_19:
(Start: 11 @12878 has 642 MA's), (13, 12902), (22, 12962), (26, 12980), (57, 13130), (74, 13211), (76, 13217), (84, 13235), (86, 13238),

Gene: VohminGhazi_21 Start: 13484, Stop: 13861, Start Num: 11
Candidate Starts for VohminGhazi_21:
(Start: 11 @13484 has 642 MA's), (14, 13511), (16, 13517), (17, 13544), (18, 13547), (26, 13586), (74, 13823), (84, 13847), (86, 13850),

Gene: Waits_20 Start: 12457, Stop: 12834, Start Num: 11
Candidate Starts for Waits_20:
(Start: 11 @12457 has 642 MA's), (26, 12559), (45, 12649), (76, 12802), (84, 12820), (86, 12823),

Gene: WalterMcMickey_17 Start: 12484, Stop: 12858, Start Num: 11
Candidate Starts for WalterMcMickey_17:
(Start: 11 @12484 has 642 MA's), (26, 12586), (38, 12652), (44, 12673), (57, 12739), (62, 12775), (74, 12820), (76, 12826), (86, 12847),

Gene: Wander_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Wander_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Warrior24_20 Start: 12461, Stop: 12838, Start Num: 11
Candidate Starts for Warrior24_20:
(Start: 11 @12461 has 642 MA's), (26, 12563), (45, 12653), (76, 12806), (84, 12824), (86, 12827),

Gene: Watson_19 Start: 12788, Stop: 13159, Start Num: 11
Candidate Starts for Watson_19:
(Start: 11 @12788 has 642 MA's), (13, 12812), (22, 12872), (26, 12890), (57, 13040), (74, 13121), (76, 13127), (84, 13145), (86, 13148),

Gene: WeiHuaDA_23 Start: 15633, Stop: 16010, Start Num: 11
Candidate Starts for WeiHuaDA_23:
(Start: 11 @15633 has 642 MA's), (14, 15660), (15, 15663), (18, 15696), (26, 15735), (48, 15837), (74, 15972), (83, 15993), (84, 15996), (86, 15999),

Gene: Whabigail7_20 Start: 13846, Stop: 14223, Start Num: 11
Candidate Starts for Whabigail7_20:
(Start: 11 @13846 has 642 MA's), (15, 13876), (16, 13879), (18, 13909), (26, 13948), (61, 14134), (74, 14185), (84, 14209), (86, 14212),

Gene: Whitspit_17 Start: 13496, Stop: 13873, Start Num: 9
Candidate Starts for Whitspit_17:
(Start: 5 @13451 has 1 MA's), (Start: 9 @13496 has 5 MA's), (13, 13523), (26, 13601), (38, 13667), (45, 13691), (57, 13754), (65, 13811), (78, 13844), (83, 13856), (84, 13859), (86, 13862),

Gene: WideWale_20 Start: 13864, Stop: 14241, Start Num: 11
Candidate Starts for WideWale_20:
(Start: 11 @13864 has 642 MA's), (14, 13891), (16, 13897), (18, 13927), (26, 13966), (31, 13996), (48, 14068), (74, 14203), (83, 14224), (84, 14227), (86, 14230),

Gene: Wiks_21 Start: 13460, Stop: 13837, Start Num: 11
Candidate Starts for Wiks_21:
(Start: 11 @13460 has 642 MA's), (14, 13487), (16, 13493), (17, 13520), (18, 13523), (26, 13562), (74, 13799), (84, 13823), (86, 13826),

Gene: Wilbur_17 Start: 12688, Stop: 13044, Start Num: 11
Candidate Starts for Wilbur_17:
(Start: 11 @12688 has 642 MA's), (26, 12790), (38, 12838), (44, 12859), (57, 12925), (62, 12961), (74, 13006), (86, 13033),

Gene: Wile_17 Start: 12700, Stop: 13056, Start Num: 11
Candidate Starts for Wile_17:
(Start: 11 @12700 has 642 MA's), (26, 12802), (38, 12850), (44, 12871), (57, 12937), (60, 12967), (62, 12973), (74, 13018), (86, 13045),

Gene: WilliamBoone_37 Start: 15075, Stop: 15455, Start Num: 11
Candidate Starts for WilliamBoone_37:
(Start: 11 @15075 has 642 MA's), (14, 15102), (45, 15258), (75, 15411),

Gene: Wizard007_17 Start: 12690, Stop: 13046, Start Num: 11
Candidate Starts for Wizard007_17:
(Start: 11 @12690 has 642 MA's), (26, 12792), (38, 12840), (44, 12861), (57, 12927), (62, 12963), (74, 13008), (86, 13035),

Gene: Wolpertinger_17 Start: 13931, Stop: 14308, Start Num: 11
Candidate Starts for Wolpertinger_17:
(Start: 11 @13931 has 642 MA's), (13, 13955), (18, 13994), (26, 14033), (28, 14039), (83, 14291), (84, 14294), (86, 14297),

Gene: Wooldri_21 Start: 12707, Stop: 13078, Start Num: 11
Candidate Starts for Wooldri_21:
(Start: 11 @12707 has 642 MA's), (13, 12731), (22, 12791), (26, 12809), (57, 12959), (74, 13040), (76, 13046), (84, 13064), (86, 13067),

Gene: WorldCup_16 Start: 12210, Stop: 12587, Start Num: 11
Candidate Starts for WorldCup_16:
(Start: 11 @12210 has 642 MA's), (26, 12312), (67, 12531), (74, 12549), (76, 12555), (84, 12573), (86, 12576),

Gene: WunderPhul_21 Start: 13460, Stop: 13837, Start Num: 11
Candidate Starts for WunderPhul_21:
(Start: 11 @13460 has 642 MA's), (14, 13487), (16, 13493), (17, 13520), (18, 13523), (26, 13562), (74, 13799), (84, 13823), (86, 13826),

Gene: Xena_17 Start: 12687, Stop: 13043, Start Num: 11
Candidate Starts for Xena_17:
(Start: 11 @12687 has 642 MA's), (26, 12789), (38, 12837), (44, 12858), (57, 12924), (60, 12954), (62, 12960), (74, 13005), (86, 13032),

Gene: XianYue_18 Start: 13337, Stop: 13714, Start Num: 11
Candidate Starts for XianYue_18:
(1, 13130), (Start: 11 @13337 has 642 MA's), (15, 13367), (16, 13370), (18, 13400), (26, 13439), (33, 13478), (74, 13676), (76, 13682), (84, 13700), (86, 13703),

Gene: Yecey3_18 Start: 12264, Stop: 12641, Start Num: 11
Candidate Starts for Yecey3_18:
(Start: 11 @12264 has 642 MA's), (14, 12291), (18, 12327), (26, 12366), (74, 12603), (84, 12627), (86, 12630),

Gene: YoSam321_17 Start: 12685, Stop: 13041, Start Num: 11
Candidate Starts for YoSam321_17:
(Start: 11 @12685 has 642 MA's), (26, 12787), (38, 12835), (44, 12856), (57, 12922), (62, 12958), (74, 13003), (86, 13030),

Gene: Yogi_14 Start: 8884, Stop: 9264, Start Num: 11
Candidate Starts for Yogi_14:
(Start: 11 @8884 has 642 MA's), (13, 8908), (21, 8956), (33, 9025), (48, 9088), (57, 9139), (72, 9217), (74, 9223), (82, 9244),

Gene: Yokurt_21 Start: 13460, Stop: 13837, Start Num: 11
Candidate Starts for Yokurt_21:
(Start: 11 @13460 has 642 MA's), (14, 13487), (16, 13493), (17, 13520), (18, 13523), (26, 13562), (74, 13799), (84, 13823), (86, 13826),

Gene: Yoncess_14 Start: 8884, Stop: 9264, Start Num: 11
Candidate Starts for Yoncess_14:

(Start: 11 @8884 has 642 MA's), (13, 8908), (21, 8956), (33, 9025), (38, 9052), (57, 9139), (72, 9217), (74, 9223), (82, 9244),

Gene: Yvonnetastic_34 Start: 17157, Stop: 17543, Start Num: 11
Candidate Starts for Yvonnetastic_34:
(Start: 11 @17157 has 642 MA's), (25, 17253), (42, 17328), (52, 17385), (71, 17484), (85, 17523),

Gene: Zaka_21 Start: 13460, Stop: 13837, Start Num: 11
Candidate Starts for Zaka_21:
(Start: 11 @13460 has 642 MA's), (14, 13487), (16, 13493), (17, 13520), (18, 13523), (26, 13562), (74, 13799), (84, 13823), (86, 13826),

Gene: Zarafa_17 Start: 12405, Stop: 12779, Start Num: 11
Candidate Starts for Zarafa_17:
(Start: 11 @12405 has 642 MA's), (26, 12507), (38, 12573), (44, 12594), (57, 12660), (74, 12741), (76, 12747), (84, 12765),

Gene: Zetzy_18 Start: 12328, Stop: 12699, Start Num: 11
Candidate Starts for Zetzy_18:
(Start: 11 @12328 has 642 MA's), (13, 12352), (22, 12412), (26, 12430), (57, 12580), (74, 12661), (84, 12685), (86, 12688),

Gene: Zimmer_20 Start: 14945, Stop: 15322, Start Num: 11
Candidate Starts for Zimmer_20:
(Start: 11 @14945 has 642 MA's), (14, 14972), (15, 14975), (18, 15008), (26, 15047), (31, 15077), (44, 15134), (48, 15149), (50, 15170), (74, 15284), (84, 15308), (86, 15311),

Gene: Zolita_13 Start: 11878, Stop: 12252, Start Num: 10
Candidate Starts for Zolita_13:
(Start: 10 @11878 has 52 MA's), (13, 11902), (15, 11908), (45, 12070), (57, 12133), (60, 12163), (66, 12193), (74, 12214), (83, 12235), (84, 12238), (86, 12241),

Gene: Zulu_21 Start: 13459, Stop: 13836, Start Num: 11
Candidate Starts for Zulu_21:
(Start: 11 @13459 has 642 MA's), (14, 13486), (16, 13492), (17, 13519), (18, 13522), (26, 13561), (74, 13798), (84, 13822), (86, 13825),