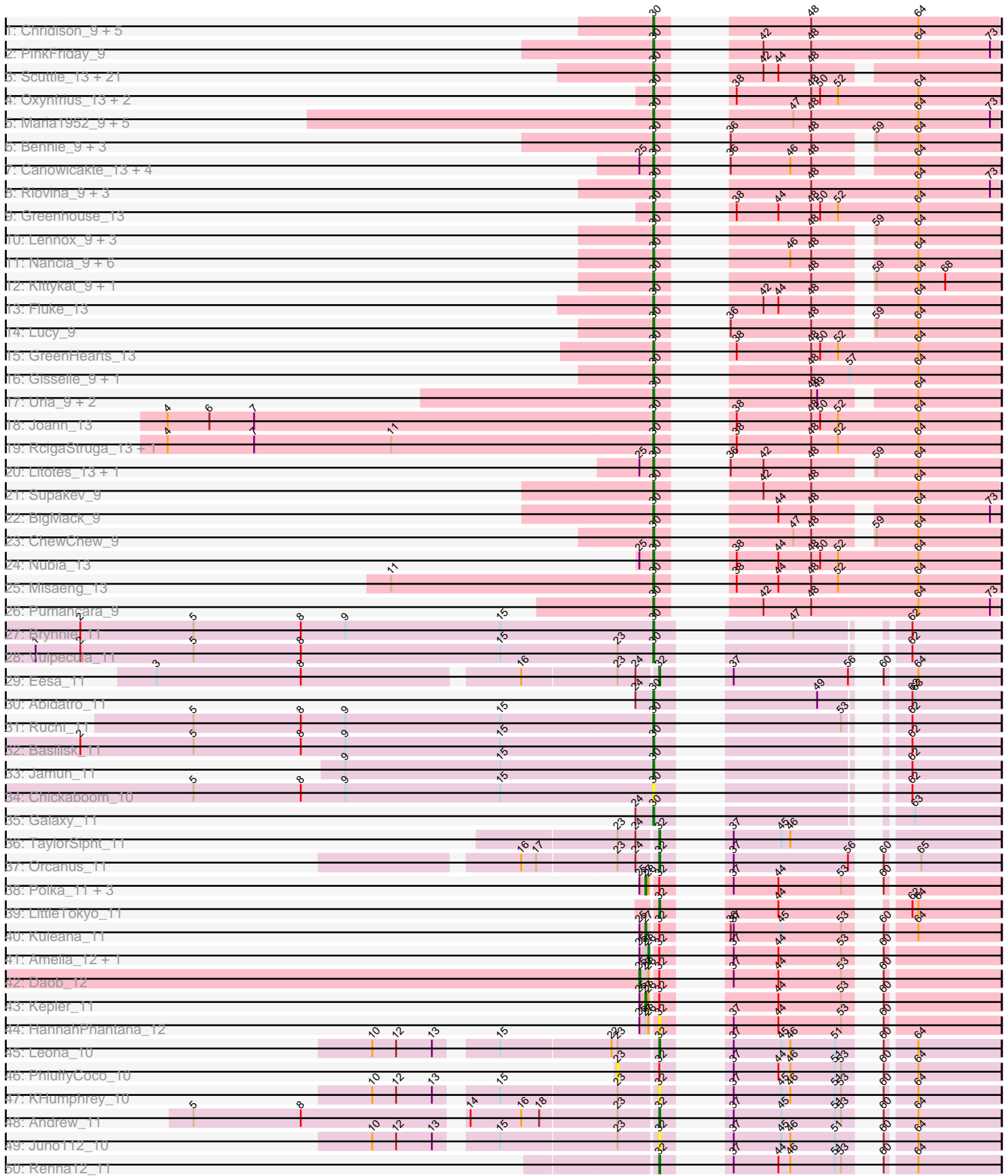
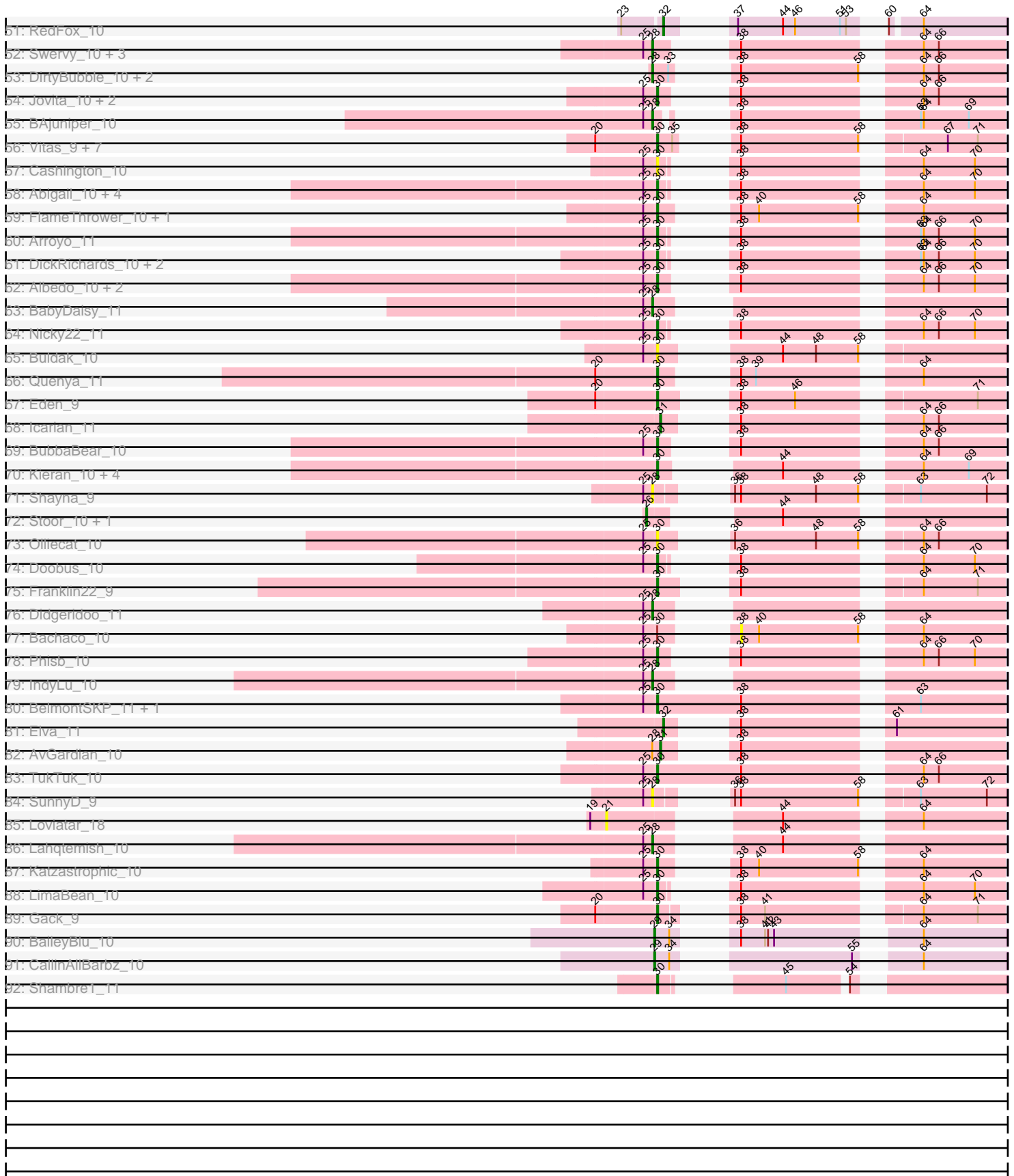


Pham 169657





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 169657 Report

This analysis was run 07/09/24 on database version 566.

Pham number 169657 has 183 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Chridison_9, DrRobert_9, Vulture_9, HunterDalle_9, WonderBoy_9, AustinPowers_9
- Track 2 : PinkFriday_9
- Track 3 : Scuttle_13, Carpal_13, RAP15_13, Dino_13, Wawa_13, Potatoes_13, Cholula_13, Korra_13, Glenn_13, Vallejo_13, Jumboset_13, Savage2526_13, TattModd_13, Rozby_13, MrGloopy_13, Riverdale_13, Immaculata_13, MeganNoll_13, Beethoven_13, Kalizoi_13, BrotherBLo_13, Zorro_13
- Track 4 : Oxyfrius_13, Lakshmi_13, Albanese_13
- Track 5 : Maria1952_9, KingBob_9, Herb_9, Sergei_9, Daiboju_9, Temper16_9
- Track 6 : Bennie_9, HeadNerd_9, Moki_9, Huckleberry_9
- Track 7 : Canowicakte_13, Suppi_13, Wayne_13, AppleCider_13, CallieOMalley_13
- Track 8 : Riovina_9, Eunoia_9, OMalley_9, Aledel_9
- Track 9 : Greenhouse_13
- Track 10 : Lennox_9, Makoto_9, PitaDog_9, Pterodactyl_9
- Track 11 : Nancia_9, Christian_9, Bodacious_9, CristinaYang_9, LilStuart_9, Lasagna_9, OurGirlNessie_9
- Track 12 : Kittykat_9, Preamble_9
- Track 13 : Fluke_13
- Track 14 : Lucy_9
- Track 15 : GreenHearts_13
- Track 16 : Gisselle_9, DreamTeam_9
- Track 17 : Urla_9, MamaPearl_9, EstebanJulior_9
- Track 18 : Joann_13
- Track 19 : RcigaStruga_13, Huntingdon_13
- Track 20 : Litotes_13, PartyCup_13
- Track 21 : Supakev_9
- Track 22 : BigMack_9
- Track 23 : ChewChew_9
- Track 24 : Nubia_13
- Track 25 : Misaeng_13
- Track 26 : Pumancara_9
- Track 27 : Brynnie_11
- Track 28 : Vulpecula_11
- Track 29 : Eesa_11
- Track 30 : Abidatro_11
- Track 31 : Ruchi_11
- Track 32 : Basilisk_11

- Track 33 : Jamun_11
- Track 34 : Chickaboom_10
- Track 35 : Galaxy_11
- Track 36 : TaylorSipht_11
- Track 37 : Orcanus_11
- Track 38 : Polka_11, Cote_12, Coral_11, Melons_12
- Track 39 : LittleTokyo_11
- Track 40 : Kuleana_11
- Track 41 : Amelia_12, Lunar_12
- Track 42 : Daob_12
- Track 43 : Kepler_11
- Track 44 : HannahPhantana_12
- Track 45 : Leona_10
- Track 46 : PhluffyCoco_10
- Track 47 : KHumphrey_10
- Track 48 : Andrew_11
- Track 49 : Juno112_10
- Track 50 : Renna12_11
- Track 51 : RedFox_10
- Track 52 : Swervy_10, Slay_10, Finalfrontier_11, SarBear_10
- Track 53 : DirtyBubble_10, Stromboli_10, BabyYoda_10
- Track 54 : Jovita_10, QMacho_11, Eula_10
- Track 55 : BAjuniper_10
- Track 56 : Vitas_9, Clayda5_9, Brahms_9, Bernstein_9, Rollins_9, Coltrane_9, Armstrong_9, Skylord_9
- Track 57 : Cashington_10
- Track 58 : Abigail_10, Burritobowl_10, Avocadoman_10, Albright_10, Johnathan_10
- Track 59 : FlameThrower_10, Celaena_10
- Track 60 : Arroyo_11
- Track 61 : DickRichards_10, CroZenni_10, SansAfet_10
- Track 62 : Albedo_10, Kenzers_10, Lynlen_10
- Track 63 : BabyDaisy_11
- Track 64 : Nicky22_11
- Track 65 : Buldak_10
- Track 66 : Quenya_11
- Track 67 : Eden_9
- Track 68 : Icarian_11
- Track 69 : BubbaBear_10
- Track 70 : Kieran_10, ChiliPepper_10, Sharkboy_10, Dismas_10, Rona_10
- Track 71 : Shayna_9
- Track 72 : Stoor_10, SanaSana_11
- Track 73 : Olliecat_10
- Track 74 : Doobus_10
- Track 75 : Franklin22_9
- Track 76 : Didgeridoo_11
- Track 77 : Bachaco_10
- Track 78 : Phisb_10
- Track 79 : IndyLu_10
- Track 80 : BelmontSKP_11, AnnaLie_11
- Track 81 : Elva_11
- Track 82 : AvGardian_10
- Track 83 : TukTuk_10
- Track 84 : SunnyD_9

- Track 85 : Loviatar_18
- Track 86 : Lahqtemish_10
- Track 87 : Katzastrophic_10
- Track 88 : LimaBean_10
- Track 89 : Gack_9
- Track 90 : BaileyBlu_10
- Track 91 : CallinAllBarbz_10
- Track 92 : Shambre1_11

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

The start number called the most often in the published annotations is 30, it was called in 133 of the 169 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abidatro_11, Abigail_10, Albanese_13, Albedo_10, Albright_10, Aledel_9, AnnaLie_11, AppleCider_13, Armstrong_9, Arroyo_11, AustinPowers_9, Avocadoman_10, Basilisk_11, Beethoven_13, BelmontSKP_11, Bennie_9, Bernstein_9, BigMack_9, Bodacious_9, Brahms_9, BrotherBLo_13, Brynnie_11, BubbaBear_10, Buldak_10, Burritobowl_10, CallieOMalley_13, Canowicakte_13, Carpal_13, Cashington_10, Celaena_10, ChewChew_9, Chickaboom_10, ChiliPepper_10, Cholula_13, Chridison_9, Christian_9, Clayda5_9, Coltrane_9, CristinaYang_9, CroZenni_10, Daiboju_9, DickRichards_10, Dino_13, Dismas_10, Doobus_10, DrRobert_9, DreamTeam_9, Eden_9, EstebanJulior_9, Eula_10, Eunoia_9, FlameThrower_10, Fluke_13, Franklin22_9, Gack_9, Galaxy_11, Gisselle_9, Glenn_13, GreenHearts_13, Greenhouse_13, HeadNerd_9, Herb_9, Huckleberry_9, HunterDalle_9, Huntingdon_13, Immaculata_13, Jamun_11, Joann_13, Johnathan_10, Jovita_10, Jumboset_13, Kalizoi_13, Katzastrophic_10, Kenzers_10, Kieran_10, KingBob_9, Kittykat_9, Korra_13, Lakshmi_13, Lasagna_9, Lennox_9, LilStuart_9, LimaBean_10, Litotes_13, Lucy_9, Lynlen_10, Makoto_9, MamaPearl_9, Maria1952_9, MeganNoll_13, Misaeng_13, Moki_9, MrGloopy_13, Nancia_9, Nicky22_11, Nubia_13, OMalley_9, Olliecat_10, OurGirlNessie_9, Oxynfrius_13, PartyCup_13, Phisb_10, PinkFriday_9, PitaDog_9, Potatoes_13, Preamble_9, Pterodactyl_9, Pumancara_9, QMacho_11, Quenya_11, RAP15_13, RcigaStruga_13, Riovina_9, Riverdale_13, Rollins_9, Rona_10, Rozby_13, Ruchi_11, SansAfet_10, Savage2526_13, Scuttle_13, Sergei_9, Shambre1_11, Sharkboy_10, Skylord_9, Supakev_9, Suppi_13, TattModd_13, Temper16_9, TukTuk_10, Urla_9, Vallejo_13, Vitas_9, Vulpecula_11, Vulture_9, Wawa_13, Wayne_13, WonderBoy_9, Zorro_13,

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

- Bachaco_10,

Genes that do not have the "Most Annotated" start:

- Amelia_12, Andrew_11, AvGardian_10, BAjuniper_10, BabyDaisy_11, BabyYoda_10, BaileyBlu_10, CallinAllBarbz_10, Coral_11, Cote_12, Daob_12, Didgeridoo_11, DirtyBubble_10, Eesa_11, Elva_11, Finalfrontier_11, HannahPhantana_12, Icarian_11, IndyLu_10, Juno112_10, KHumphrey_10, Kepler_11, Kuleana_11, Lahqtemish_10, Leona_10, LittleTokyo_11, Loviatar_18, Lunar_12, Melons_12, Orcanus_11, PhluffyCoco_10, Polka_11, RedFox_10,

Renna12_11, SanaSana_11, SarBear_10, Shayna_9, Slay_10, Stoor_10, Stromboli_10, SunnyD_9, Swervy_10, TaylorSipht_11,

Summary by start number:

Start 21:

- Found in 1 of 183 (0.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Loviatar_18 (EB),

Start 23:

- Found in 10 of 183 (5.5%) of genes in pham
- No Manual Annotations of this start.
- Called 10.0% of time when present
- Phage (with cluster) where this start called: PhluffyCoco_10 (AS3),

Start 25:

- Found in 59 of 183 (32.2%) of genes in pham
- Manual Annotations of this start: 1 of 169
- Called 1.7% of time when present
- Phage (with cluster) where this start called: Daob_12 (AS2),

Start 26:

- Found in 2 of 183 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 169
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SanaSana_11 (EB), Stoor_10 (EB),

Start 27:

- Found in 10 of 183 (5.5%) of genes in pham
- Manual Annotations of this start: 6 of 169
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Coral_11 (AS2), Cote_12 (AS2), Kepler_11 (AS2), Kuleana_11 (AS2), Melons_12 (AS2), Polka_11 (AS2),

Start 28:

- Found in 24 of 183 (13.1%) of genes in pham
- Manual Annotations of this start: 14 of 169
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Amelia_12 (AS2), BAjuniper_10 (EB), BabyDaisy_11 (EB), BabyYoda_10 (EB), Didgeridoo_11 (EB), DirtyBubble_10 (EB), Finalfrontier_11 (EB), IndyLu_10 (EB), Lahqtemish_10 (EB), Lunar_12 (AS2), SarBear_10 (EB), Shayna_9 (EB), Slay_10 (EB), Stromboli_10 (EB), SunnyD_9 (EB), Swervy_10 (EB),

Start 29:

- Found in 2 of 183 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 169
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BaileyBlu_10 (FP), CallinAllBarbz_10 (FP),

Start 30:

- Found in 140 of 183 (76.5%) of genes in pham
- Manual Annotations of this start: 133 of 169
- Called 99.3% of time when present
- Phage (with cluster) where this start called: Abidatro_11 (AS1), Abigail_10 (EB), Albanese_13 (AK), Albedo_10 (EB), Albright_10 (EB), Aledel_9 (AK), AnnaLie_11 (EB), AppleCider_13 (AK), Armstrong_9 (EB), Arroyo_11 (EB), AustinPowers_9 (AK), Avocadoman_10 (EB), Basilisk_11 (AS1), Beethoven_13 (AK), BelmontSKP_11 (EB), Bennie_9 (AK), Bernstein_9 (EB), BigMack_9 (AK), Bodacious_9 (AK), Brahms_9 (EB), BrotherBLo_13 (AK), Brynnie_11 (AS1), BubbaBear_10 (EB), Buldak_10 (EB), Burritobowl_10 (EB), CallieOMalley_13 (AK), Canowicakte_13 (AK), Carpal_13 (AK), Cashington_10 (EB), Celaena_10 (EB), ChewChew_9 (AK), Chickaboom_10 (AS1), ChiliPepper_10 (EB), Cholula_13 (AK), Chridison_9 (AK), Christian_9 (AK), Clayda5_9 (EB), Coltrane_9 (EB), CristinaYang_9 (AK), CroZenni_10 (EB), Daiboju_9 (AK), DickRichards_10 (EB), Dino_13 (AK), Dismas_10 (EB), Doobus_10 (EB), DrRobert_9 (AK), DreamTeam_9 (AK), Eden_9 (EB), EstebanJulior_9 (AK), Eula_10 (EB), Eunoia_9 (AK), FlameThrower_10 (EB), Fluke_13 (AK), Franklin22_9 (EB), Gack_9 (EB), Galaxy_11 (AS1), Gisselle_9 (AK), Glenn_13 (AK), GreenHearts_13 (AK), Greenhouse_13 (AK), HeadNerd_9 (AK), Herb_9 (AK), Huckleberry_9 (AK), HunterDalle_9 (AK), Huntingdon_13 (AK), Immaculata_13 (AK), Jamun_11 (AS1), Joann_13 (AK), Johnathan_10 (EB), Jovita_10 (EB), Jumboset_13 (AK), Kalizoi_13 (AK), Katzastrophic_10 (EB), Kenzers_10 (EB), Kieran_10 (EB), KingBob_9 (AK), Kittykat_9 (AK), Korra_13 (AK), Lakshmi_13 (AK), Lasagna_9 (AK), Lennox_9 (AK), LilStuart_9 (AK), LimaBean_10 (EB), Litotes_13 (AK), Lucy_9 (AK), Lynlen_10 (EB), Makoto_9 (AK), MamaPearl_9 (AK), Maria1952_9 (AK), MeganNoll_13 (AK), Misaeng_13 (AK), Moki_9 (AK), MrGloopy_13 (AK), Nancia_9 (AK), Nicky22_11 (EB), Nubia_13 (AK), OMalley_9 (AK), Olliecat_10 (EB), OurGirlNessie_9 (AK), Oxynfrius_13 (AK), PartyCup_13 (AK), Phisb_10 (EB), PinkFriday_9 (AK), PitaDog_9 (AK), Potatoes_13 (AK), Preamble_9 (AK), Pterodactyl_9 (AK), Pumancara_9 (AK), QMacho_11 (EB), Quenya_11 (EB), RAP15_13 (AK), RcigaStruga_13 (AK), Riovina_9 (AK), Riverdale_13 (AK), Rollins_9 (EB), Rona_10 (EB), Rozby_13 (AK), Ruchi_11 (AS1), SansAfet_10 (EB), Savage2526_13 (AK), Scuttle_13 (AK), Sergei_9 (AK), Shambre1_11 (singleton), Sharkboy_10 (EB), Skylord_9 (EB), Supakev_9 (AK), Suppi_13 (AK), TattModd_13 (AK), Temper16_9 (AK), TukTuk_10 (EB), Urla_9 (AK), Vallejo_13 (AK), Vitas_9 (EB), Vulpecula_11 (AS1), Vulture_9 (AK), Wawa_13 (AK), Wayne_13 (AK), WonderBoy_9 (AK), Zorro_13 (AK),

Start 31:

- Found in 2 of 183 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 169
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AvGardian_10 (EB), Icarian_11 (EB),

Start 32:

- Found in 22 of 183 (12.0%) of genes in pham
- Manual Annotations of this start: 9 of 169
- Called 54.5% of time when present
- Phage (with cluster) where this start called: Andrew_11 (AS3), Eesa_11 (AS1), Elva_11 (EB), HannahPhantana_12 (AS2), Juno112_10 (AS3), KHumphrey_10 (AS3), Leona_10 (AS3), LittleTokyo_11 (AS2), Orcanus_11 (AS1), RedFox_10 (AS3), Renna12_11 (AS3), TaylorSipt_11 (AS1),

Start 38:

- Found in 64 of 183 (35.0%) of genes in pham
- No Manual Annotations of this start.
- Called 1.6% of time when present
- Phage (with cluster) where this start called: Bachaco_10 (EB),

Summary by clusters:

There are 7 clusters represented in this pham: AS3, AS2, AS1, AK, singleton, FP, EB,

Info for manual annotations of cluster AK:

- Start number 30 was manually annotated 82 times for cluster AK.

Info for manual annotations of cluster AS1:

- Start number 30 was manually annotated 7 times for cluster AS1.
- Start number 32 was manually annotated 3 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 25 was manually annotated 1 time for cluster AS2.
- Start number 27 was manually annotated 6 times for cluster AS2.
- Start number 28 was manually annotated 2 times for cluster AS2.
- Start number 32 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 32 was manually annotated 4 times for cluster AS3.

Info for manual annotations of cluster EB:

- Start number 26 was manually annotated 2 times for cluster EB.
- Start number 28 was manually annotated 12 times for cluster EB.
- Start number 30 was manually annotated 43 times for cluster EB.
- Start number 31 was manually annotated 2 times for cluster EB.
- Start number 32 was manually annotated 1 time for cluster EB.

Info for manual annotations of cluster FP:

- Start number 29 was manually annotated 2 times for cluster FP.

Gene Information:

Gene: Abidatro_11 Start: 8071, Stop: 8328, Start Num: 30

Candidate Starts for Abidatro_11:

(24, 8053), (Start: 30 @8071 has 133 MA's), (49, 8185), (62, 8239), (63, 8242),

Gene: Abigail_10 Start: 7773, Stop: 8030, Start Num: 30

Candidate Starts for Abigail_10:

(Start: 25 @7761 has 1 MA's), (Start: 30 @7773 has 133 MA's), (38, 7794), (64, 7950), (70, 8001),

Gene: Albanese_13 Start: 10184, Stop: 10474, Start Num: 30

Candidate Starts for Albanese_13:

(Start: 30 @10184 has 133 MA's), (38, 10208), (48, 10283), (50, 10292), (52, 10310), (64, 10391),

Gene: Albedo_10 Start: 7645, Stop: 7905, Start Num: 30

Candidate Starts for Albedo_10:

(Start: 25 @7633 has 1 MA's), (Start: 30 @7645 has 133 MA's), (38, 7669), (64, 7825), (66, 7840), (70, 7876),

Gene: Albright_10 Start: 7654, Stop: 7911, Start Num: 30

Candidate Starts for Albright_10:

(Start: 25 @7642 has 1 MA's), (Start: 30 @7654 has 133 MA's), (38, 7675), (64, 7831), (70, 7882),

Gene: Aledel_9 Start: 7261, Stop: 7548, Start Num: 30

Candidate Starts for Aledel_9:

(Start: 30 @7261 has 133 MA's), (48, 7360), (64, 7468), (73, 7540),

Gene: Amelia_12 Start: 8244, Stop: 8504, Start Num: 28

Candidate Starts for Amelia_12:

(Start: 25 @8235 has 1 MA's), (Start: 27 @8241 has 6 MA's), (Start: 28 @8244 has 14 MA's), (Start: 32 @8250 has 9 MA's), (37, 8274), (44, 8319), (53, 8382), (60, 8394),

Gene: Andrew_11 Start: 8034, Stop: 8288, Start Num: 32

Candidate Starts for Andrew_11:

(5, 7596), (8, 7704), (14, 7854), (16, 7905), (18, 7923), (23, 7998), (Start: 32 @8034 has 9 MA's), (37, 8058), (45, 8106), (51, 8160), (53, 8166), (60, 8178), (64, 8205),

Gene: AnnaLie_11 Start: 8000, Stop: 8320, Start Num: 30

Candidate Starts for AnnaLie_11:

(Start: 25 @7988 has 1 MA's), (Start: 30 @8000 has 133 MA's), (38, 8084), (63, 8237),

Gene: AppleCider_13 Start: 10140, Stop: 10409, Start Num: 30

Candidate Starts for AppleCider_13:

(Start: 25 @10128 has 1 MA's), (Start: 30 @10140 has 133 MA's), (36, 10158), (46, 10218), (48, 10239), (64, 10326),

Gene: Armstrong_9 Start: 7425, Stop: 7688, Start Num: 30

Candidate Starts for Armstrong_9:

(20, 7368), (Start: 30 @7425 has 133 MA's), (35, 7440), (38, 7455), (58, 7572), (67, 7632), (71, 7662),

Gene: Arroyo_11 Start: 8124, Stop: 8381, Start Num: 30

Candidate Starts for Arroyo_11:

(Start: 25 @8112 has 1 MA's), (Start: 30 @8124 has 133 MA's), (38, 8145), (63, 8298), (64, 8301), (66, 8316), (70, 8352),

Gene: AustinPowers_9 Start: 7262, Stop: 7549, Start Num: 30

Candidate Starts for AustinPowers_9:

(Start: 30 @7262 has 133 MA's), (48, 7361), (64, 7469),

Gene: AvGardian_10 Start: 7705, Stop: 7968, Start Num: 31

Candidate Starts for AvGardian_10:

(Start: 28 @7699 has 14 MA's), (Start: 31 @7705 has 2 MA's), (38, 7732),

Gene: Avocadoman_10 Start: 7712, Stop: 7969, Start Num: 30

Candidate Starts for Avocadoman_10:

(Start: 25 @7700 has 1 MA's), (Start: 30 @7712 has 133 MA's), (38, 7733), (64, 7889), (70, 7940),

Gene: BAjuniper_10 Start: 7595, Stop: 7852, Start Num: 28

Candidate Starts for BAjuniper_10:

(Start: 25 @7586 has 1 MA's), (Start: 28 @7595 has 14 MA's), (38, 7616), (63, 7769), (64, 7772), (69, 7817),

Gene: BabyDaisy_11 Start: 7870, Stop: 8133, Start Num: 28

Candidate Starts for BabyDaisy_11:

(Start: 25 @7861 has 1 MA's), (Start: 28 @7870 has 14 MA's),

Gene: BabyYoda_10 Start: 7899, Stop: 8162, Start Num: 28

Candidate Starts for BabyYoda_10:

(Start: 28 @7899 has 14 MA's), (33, 7911), (38, 7926), (58, 8043), (64, 8082), (66, 8097),

Gene: Bachaco_10 Start: 7813, Stop: 8049, Start Num: 38

Candidate Starts for Bachaco_10:

(Start: 25 @7774 has 1 MA's), (Start: 30 @7786 has 133 MA's), (38, 7813), (40, 7831), (58, 7930), (64, 7969),

Gene: BaileyBlu_10 Start: 6510, Stop: 6782, Start Num: 29

Candidate Starts for BaileyBlu_10:

(Start: 29 @6510 has 2 MA's), (34, 6525), (38, 6546), (41, 6570), (42, 6573), (43, 6579), (64, 6699),

Gene: Basilisk_11 Start: 8395, Stop: 8652, Start Num: 30

Candidate Starts for Basilisk_11:

(2, 7819), (5, 7933), (8, 8041), (9, 8086), (15, 8242), (Start: 30 @8395 has 133 MA's), (62, 8563),

Gene: Beethoven_13 Start: 10100, Stop: 10369, Start Num: 30

Candidate Starts for Beethoven_13:

(Start: 30 @10100 has 133 MA's), (42, 10151), (44, 10166), (48, 10199),

Gene: BelmontSKP_11 Start: 8000, Stop: 8320, Start Num: 30

Candidate Starts for BelmontSKP_11:

(Start: 25 @7988 has 1 MA's), (Start: 30 @8000 has 133 MA's), (38, 8084), (63, 8237),

Gene: Bennie_9 Start: 7245, Stop: 7514, Start Num: 30

Candidate Starts for Bennie_9:

(Start: 30 @7245 has 133 MA's), (36, 7263), (48, 7344), (59, 7389), (64, 7431),

Gene: Bernstein_9 Start: 7485, Stop: 7748, Start Num: 30

Candidate Starts for Bernstein_9:

(20, 7428), (Start: 30 @7485 has 133 MA's), (35, 7500), (38, 7515), (58, 7632), (67, 7692), (71, 7722),

Gene: BigMack_9 Start: 7245, Stop: 7514, Start Num: 30

Candidate Starts for BigMack_9:

(Start: 30 @7245 has 133 MA's), (44, 7311), (48, 7344), (64, 7431), (73, 7503),

Gene: Bodacious_9 Start: 7243, Stop: 7512, Start Num: 30

Candidate Starts for Bodacious_9:

(Start: 30 @7243 has 133 MA's), (46, 7321), (48, 7342), (64, 7429),

Gene: Brahms_9 Start: 7425, Stop: 7688, Start Num: 30

Candidate Starts for Brahms_9:

(20, 7368), (Start: 30 @7425 has 133 MA's), (35, 7440), (38, 7455), (58, 7572), (67, 7632), (71, 7662),

Gene: BrotherBLo_13 Start: 10107, Stop: 10376, Start Num: 30
Candidate Starts for BrotherBLo_13:
(Start: 30 @10107 has 133 MA's), (42, 10158), (44, 10173), (48, 10206),

Gene: Brynnie_11 Start: 8207, Stop: 8464, Start Num: 30
Candidate Starts for Brynnie_11:
(2, 7631), (5, 7745), (8, 7853), (9, 7898), (15, 8054), (Start: 30 @8207 has 133 MA's), (47, 8297), (62, 8375),

Gene: BubbaBear_10 Start: 7645, Stop: 7905, Start Num: 30
Candidate Starts for BubbaBear_10:
(Start: 25 @7633 has 1 MA's), (Start: 30 @7645 has 133 MA's), (38, 7669), (64, 7825), (66, 7840),

Gene: Buldak_10 Start: 7930, Stop: 8196, Start Num: 30
Candidate Starts for Buldak_10:
(Start: 25 @7918 has 1 MA's), (Start: 30 @7930 has 133 MA's), (44, 8002), (48, 8035), (58, 8077),

Gene: Burritobowl_10 Start: 7681, Stop: 7938, Start Num: 30
Candidate Starts for Burritobowl_10:
(Start: 25 @7669 has 1 MA's), (Start: 30 @7681 has 133 MA's), (38, 7702), (64, 7858), (70, 7909),

Gene: CallieOMalley_13 Start: 10140, Stop: 10409, Start Num: 30
Candidate Starts for CallieOMalley_13:
(Start: 25 @10128 has 1 MA's), (Start: 30 @10140 has 133 MA's), (36, 10158), (46, 10218), (48, 10239), (64, 10326),

Gene: CallinAllBarbz_10 Start: 6520, Stop: 6792, Start Num: 29
Candidate Starts for CallinAllBarbz_10:
(Start: 29 @6520 has 2 MA's), (34, 6535), (55, 6667), (64, 6709),

Gene: Canowicakte_13 Start: 10175, Stop: 10444, Start Num: 30
Candidate Starts for Canowicakte_13:
(Start: 25 @10163 has 1 MA's), (Start: 30 @10175 has 133 MA's), (36, 10193), (46, 10253), (48, 10274), (64, 10361),

Gene: Carpal_13 Start: 10107, Stop: 10376, Start Num: 30
Candidate Starts for Carpal_13:
(Start: 30 @10107 has 133 MA's), (42, 10158), (44, 10173), (48, 10206),

Gene: Cashington_10 Start: 7671, Stop: 7928, Start Num: 30
Candidate Starts for Cashington_10:
(Start: 25 @7659 has 1 MA's), (Start: 30 @7671 has 133 MA's), (38, 7692), (64, 7848), (70, 7899),

Gene: Celaena_10 Start: 7723, Stop: 7986, Start Num: 30
Candidate Starts for Celaena_10:
(Start: 25 @7711 has 1 MA's), (Start: 30 @7723 has 133 MA's), (38, 7750), (40, 7768), (58, 7867), (64, 7906),

Gene: ChewChew_9 Start: 7242, Stop: 7511, Start Num: 30
Candidate Starts for ChewChew_9:
(Start: 30 @7242 has 133 MA's), (47, 7323), (48, 7341), (59, 7386), (64, 7428),

Gene: Chickaboom_10 Start: 7752, Stop: 8009, Start Num: 30

Candidate Starts for Chickaboom_10:
(5, 7290), (8, 7398), (9, 7443), (15, 7599), (Start: 30 @7752 has 133 MA's), (62, 7920),

Gene: ChiliPepper_10 Start: 7882, Stop: 8139, Start Num: 30
Candidate Starts for ChiliPepper_10:
(Start: 30 @7882 has 133 MA's), (44, 7945), (64, 8059), (69, 8104),

Gene: Cholula_13 Start: 10152, Stop: 10421, Start Num: 30
Candidate Starts for Cholula_13:
(Start: 30 @10152 has 133 MA's), (42, 10203), (44, 10218), (48, 10251),

Gene: Chridison_9 Start: 7262, Stop: 7549, Start Num: 30
Candidate Starts for Chridison_9:
(Start: 30 @7262 has 133 MA's), (48, 7361), (64, 7469),

Gene: Christian_9 Start: 7243, Stop: 7512, Start Num: 30
Candidate Starts for Christian_9:
(Start: 30 @7243 has 133 MA's), (46, 7321), (48, 7342), (64, 7429),

Gene: Clayda5_9 Start: 7425, Stop: 7688, Start Num: 30
Candidate Starts for Clayda5_9:
(20, 7368), (Start: 30 @7425 has 133 MA's), (35, 7440), (38, 7455), (58, 7572), (67, 7632), (71, 7662),

Gene: Coltrane_9 Start: 7425, Stop: 7688, Start Num: 30
Candidate Starts for Coltrane_9:
(20, 7368), (Start: 30 @7425 has 133 MA's), (35, 7440), (38, 7455), (58, 7572), (67, 7632), (71, 7662),

Gene: Coral_11 Start: 8080, Stop: 8343, Start Num: 27
Candidate Starts for Coral_11:
(Start: 25 @8074 has 1 MA's), (Start: 27 @8080 has 6 MA's), (Start: 28 @8083 has 14 MA's), (Start: 32 @8089 has 9 MA's), (37, 8113), (44, 8158), (53, 8221), (60, 8233),

Gene: Cote_12 Start: 8241, Stop: 8504, Start Num: 27
Candidate Starts for Cote_12:
(Start: 25 @8235 has 1 MA's), (Start: 27 @8241 has 6 MA's), (Start: 28 @8244 has 14 MA's), (Start: 32 @8250 has 9 MA's), (37, 8274), (44, 8319), (53, 8382), (60, 8394),

Gene: CristinaYang_9 Start: 7243, Stop: 7512, Start Num: 30
Candidate Starts for CristinaYang_9:
(Start: 30 @7243 has 133 MA's), (46, 7321), (48, 7342), (64, 7429),

Gene: CroZenni_10 Start: 7654, Stop: 7911, Start Num: 30
Candidate Starts for CroZenni_10:
(Start: 25 @7642 has 1 MA's), (Start: 30 @7654 has 133 MA's), (38, 7675), (63, 7828), (64, 7831), (66, 7846), (70, 7882),

Gene: Daiboju_9 Start: 7263, Stop: 7550, Start Num: 30
Candidate Starts for Daiboju_9:
(Start: 30 @7263 has 133 MA's), (47, 7344), (48, 7362), (64, 7470), (73, 7542),

Gene: Daob_12 Start: 8238, Stop: 8507, Start Num: 25
Candidate Starts for Daob_12:

(Start: 25 @8238 has 1 MA's), (Start: 27 @8244 has 6 MA's), (Start: 28 @8247 has 14 MA's), (Start: 32 @8253 has 9 MA's), (37, 8277), (44, 8322), (53, 8385), (60, 8397),

Gene: DickRichards_10 Start: 8148, Stop: 8405, Start Num: 30

Candidate Starts for DickRichards_10:

(Start: 25 @8136 has 1 MA's), (Start: 30 @8148 has 133 MA's), (38, 8169), (63, 8322), (64, 8325), (66, 8340), (70, 8376),

Gene: Didgeridoo_11 Start: 7870, Stop: 8133, Start Num: 28

Candidate Starts for Didgeridoo_11:

(Start: 25 @7861 has 1 MA's), (Start: 28 @7870 has 14 MA's),

Gene: Dino_13 Start: 10106, Stop: 10375, Start Num: 30

Candidate Starts for Dino_13:

(Start: 30 @10106 has 133 MA's), (42, 10157), (44, 10172), (48, 10205),

Gene: DirtyBubble_10 Start: 7907, Stop: 8170, Start Num: 28

Candidate Starts for DirtyBubble_10:

(Start: 28 @7907 has 14 MA's), (33, 7919), (38, 7934), (58, 8051), (64, 8090), (66, 8105),

Gene: Dismas_10 Start: 7882, Stop: 8139, Start Num: 30

Candidate Starts for Dismas_10:

(Start: 30 @7882 has 133 MA's), (44, 7945), (64, 8059), (69, 8104),

Gene: Doobus_10 Start: 7885, Stop: 8142, Start Num: 30

Candidate Starts for Doobus_10:

(Start: 25 @7873 has 1 MA's), (Start: 30 @7885 has 133 MA's), (38, 7906), (64, 8062), (70, 8113),

Gene: DrRobert_9 Start: 7243, Stop: 7512, Start Num: 30

Candidate Starts for DrRobert_9:

(Start: 30 @7243 has 133 MA's), (48, 7342), (64, 7429),

Gene: DreamTeam_9 Start: 7289, Stop: 7579, Start Num: 30

Candidate Starts for DreamTeam_9:

(Start: 30 @7289 has 133 MA's), (48, 7388), (57, 7427), (64, 7496),

Gene: Eden_9 Start: 7514, Stop: 7780, Start Num: 30

Candidate Starts for Eden_9:

(20, 7457), (Start: 30 @7514 has 133 MA's), (38, 7547), (46, 7601), (71, 7754),

Gene: Eesa_11 Start: 8248, Stop: 8502, Start Num: 32

Candidate Starts for Eesa_11:

(3, 7771), (8, 7915), (16, 8119), (23, 8212), (24, 8230), (Start: 32 @8248 has 9 MA's), (37, 8272), (56, 8386), (60, 8392), (64, 8419),

Gene: Elva_11 Start: 7965, Stop: 8225, Start Num: 32

Candidate Starts for Elva_11:

(Start: 32 @7965 has 9 MA's), (38, 7989), (61, 8118),

Gene: EstebanJulior_9 Start: 7287, Stop: 7556, Start Num: 30

Candidate Starts for EstebanJulior_9:

(Start: 30 @7287 has 133 MA's), (48, 7386), (49, 7392), (64, 7473),

Gene: Eula_10 Start: 7652, Stop: 7912, Start Num: 30
Candidate Starts for Eula_10:
(Start: 25 @7640 has 1 MA's), (Start: 30 @7652 has 133 MA's), (38, 7676), (64, 7832), (66, 7847),

Gene: Eunoia_9 Start: 7261, Stop: 7548, Start Num: 30
Candidate Starts for Eunoia_9:
(Start: 30 @7261 has 133 MA's), (48, 7360), (64, 7468), (73, 7540),

Gene: Finalfrontier_11 Start: 8160, Stop: 8423, Start Num: 28
Candidate Starts for Finalfrontier_11:
(Start: 25 @8151 has 1 MA's), (Start: 28 @8160 has 14 MA's), (38, 8187), (64, 8343), (66, 8358),

Gene: FlameThrower_10 Start: 7611, Stop: 7874, Start Num: 30
Candidate Starts for FlameThrower_10:
(Start: 25 @7599 has 1 MA's), (Start: 30 @7611 has 133 MA's), (38, 7638), (40, 7656), (58, 7755),
(64, 7794),

Gene: Fluke_13 Start: 10148, Stop: 10417, Start Num: 30
Candidate Starts for Fluke_13:
(Start: 30 @10148 has 133 MA's), (42, 10199), (44, 10214), (48, 10247), (64, 10334),

Gene: Franklin22_9 Start: 7495, Stop: 7761, Start Num: 30
Candidate Starts for Franklin22_9:
(Start: 30 @7495 has 133 MA's), (38, 7528), (64, 7681), (71, 7735),

Gene: Gack_9 Start: 7565, Stop: 7828, Start Num: 30
Candidate Starts for Gack_9:
(20, 7508), (Start: 30 @7565 has 133 MA's), (38, 7595), (41, 7619), (64, 7748), (71, 7802),

Gene: Galaxy_11 Start: 8078, Stop: 8335, Start Num: 30
Candidate Starts for Galaxy_11:
(24, 8060), (Start: 30 @8078 has 133 MA's), (63, 8249),

Gene: Gisselle_9 Start: 7289, Stop: 7579, Start Num: 30
Candidate Starts for Gisselle_9:
(Start: 30 @7289 has 133 MA's), (48, 7388), (57, 7427), (64, 7496),

Gene: Glenn_13 Start: 10158, Stop: 10427, Start Num: 30
Candidate Starts for Glenn_13:
(Start: 30 @10158 has 133 MA's), (42, 10209), (44, 10224), (48, 10257),

Gene: GreenHearts_13 Start: 10230, Stop: 10520, Start Num: 30
Candidate Starts for GreenHearts_13:
(Start: 30 @10230 has 133 MA's), (38, 10254), (48, 10329), (50, 10338), (52, 10356), (64, 10437),

Gene: Greenhouse_13 Start: 10155, Stop: 10445, Start Num: 30
Candidate Starts for Greenhouse_13:
(Start: 30 @10155 has 133 MA's), (38, 10179), (44, 10221), (48, 10254), (50, 10263), (52, 10281), (64, 10362),

Gene: HannahPhantana_12 Start: 8253, Stop: 8507, Start Num: 32
Candidate Starts for HannahPhantana_12:

(Start: 25 @8238 has 1 MA's), (Start: 27 @8244 has 6 MA's), (Start: 28 @8247 has 14 MA's), (Start: 32 @8253 has 9 MA's), (37, 8277), (44, 8322), (53, 8385), (60, 8397),

Gene: HeadNerd_9 Start: 7245, Stop: 7514, Start Num: 30

Candidate Starts for HeadNerd_9:

(Start: 30 @7245 has 133 MA's), (36, 7263), (48, 7344), (59, 7389), (64, 7431),

Gene: Herb_9 Start: 7263, Stop: 7550, Start Num: 30

Candidate Starts for Herb_9:

(Start: 30 @7263 has 133 MA's), (47, 7344), (48, 7362), (64, 7470), (73, 7542),

Gene: Huckleberry_9 Start: 7245, Stop: 7514, Start Num: 30

Candidate Starts for Huckleberry_9:

(Start: 30 @7245 has 133 MA's), (36, 7263), (48, 7344), (59, 7389), (64, 7431),

Gene: HunterDalle_9 Start: 7261, Stop: 7548, Start Num: 30

Candidate Starts for HunterDalle_9:

(Start: 30 @7261 has 133 MA's), (48, 7360), (64, 7468),

Gene: Huntingdon_13 Start: 10141, Stop: 10431, Start Num: 30

Candidate Starts for Huntingdon_13:

(4, 9655), (7, 9742), (11, 9880), (Start: 30 @10141 has 133 MA's), (38, 10165), (48, 10240), (52, 10267), (64, 10348),

Gene: Icarian_11 Start: 7889, Stop: 8152, Start Num: 31

Candidate Starts for Icarian_11:

(Start: 31 @7889 has 2 MA's), (38, 7916), (64, 8072), (66, 8087),

Gene: Immaculata_13 Start: 10152, Stop: 10421, Start Num: 30

Candidate Starts for Immaculata_13:

(Start: 30 @10152 has 133 MA's), (42, 10203), (44, 10218), (48, 10251),

Gene: IndyLu_10 Start: 7694, Stop: 7957, Start Num: 28

Candidate Starts for IndyLu_10:

(Start: 25 @7685 has 1 MA's), (Start: 28 @7694 has 14 MA's),

Gene: Jamun_11 Start: 8419, Stop: 8676, Start Num: 30

Candidate Starts for Jamun_11:

(9, 8110), (15, 8266), (Start: 30 @8419 has 133 MA's), (62, 8587),

Gene: Joann_13 Start: 10133, Stop: 10423, Start Num: 30

Candidate Starts for Joann_13:

(4, 9647), (6, 9689), (7, 9734), (Start: 30 @10133 has 133 MA's), (38, 10157), (48, 10232), (50, 10241), (52, 10259), (64, 10340),

Gene: Johnathan_10 Start: 7654, Stop: 7911, Start Num: 30

Candidate Starts for Johnathan_10:

(Start: 25 @7642 has 1 MA's), (Start: 30 @7654 has 133 MA's), (38, 7675), (64, 7831), (70, 7882),

Gene: Jovita_10 Start: 7753, Stop: 8013, Start Num: 30

Candidate Starts for Jovita_10:

(Start: 25 @7741 has 1 MA's), (Start: 30 @7753 has 133 MA's), (38, 7777), (64, 7933), (66, 7948),

Gene: Jumboset_13 Start: 10101, Stop: 10370, Start Num: 30
Candidate Starts for Jumboset_13:
(Start: 30 @10101 has 133 MA's), (42, 10152), (44, 10167), (48, 10200),

Gene: Juno112_10 Start: 7656, Stop: 7910, Start Num: 32
Candidate Starts for Juno112_10:
(10, 7398), (12, 7422), (13, 7458), (15, 7506), (23, 7620), (Start: 32 @7656 has 9 MA's), (37, 7680),
(45, 7728), (46, 7737), (51, 7782), (60, 7800), (64, 7827),

Gene: KHumphrey_10 Start: 7655, Stop: 7909, Start Num: 32
Candidate Starts for KHumphrey_10:
(10, 7397), (12, 7421), (13, 7457), (15, 7505), (23, 7619), (Start: 32 @7655 has 9 MA's), (37, 7679),
(45, 7727), (46, 7736), (51, 7781), (53, 7787), (60, 7799), (64, 7826),

Gene: Kalizoi_13 Start: 10100, Stop: 10369, Start Num: 30
Candidate Starts for Kalizoi_13:
(Start: 30 @10100 has 133 MA's), (42, 10151), (44, 10166), (48, 10199),

Gene: Katzastrophic_10 Start: 7786, Stop: 8049, Start Num: 30
Candidate Starts for Katzastrophic_10:
(Start: 25 @7774 has 1 MA's), (Start: 30 @7786 has 133 MA's), (38, 7813), (40, 7831), (58, 7930),
(64, 7969),

Gene: Kenzers_10 Start: 7668, Stop: 7928, Start Num: 30
Candidate Starts for Kenzers_10:
(Start: 25 @7656 has 1 MA's), (Start: 30 @7668 has 133 MA's), (38, 7692), (64, 7848), (66, 7863),
(70, 7899),

Gene: Kepler_11 Start: 8079, Stop: 8342, Start Num: 27
Candidate Starts for Kepler_11:
(Start: 25 @8073 has 1 MA's), (Start: 27 @8079 has 6 MA's), (Start: 28 @8082 has 14 MA's), (Start:
32 @8088 has 9 MA's), (44, 8157), (53, 8220), (60, 8232),

Gene: Kieran_10 Start: 7885, Stop: 8142, Start Num: 30
Candidate Starts for Kieran_10:
(Start: 30 @7885 has 133 MA's), (44, 7948), (64, 8062), (69, 8107),

Gene: KingBob_9 Start: 7263, Stop: 7550, Start Num: 30
Candidate Starts for KingBob_9:
(Start: 30 @7263 has 133 MA's), (47, 7344), (48, 7362), (64, 7470), (73, 7542),

Gene: Kittykat_9 Start: 7286, Stop: 7555, Start Num: 30
Candidate Starts for Kittykat_9:
(Start: 30 @7286 has 133 MA's), (48, 7385), (59, 7430), (64, 7472), (68, 7499),

Gene: Korra_13 Start: 10106, Stop: 10375, Start Num: 30
Candidate Starts for Korra_13:
(Start: 30 @10106 has 133 MA's), (42, 10157), (44, 10172), (48, 10205),

Gene: Kuleana_11 Start: 8039, Stop: 8302, Start Num: 27
Candidate Starts for Kuleana_11:
(Start: 25 @8033 has 1 MA's), (Start: 27 @8039 has 6 MA's), (Start: 32 @8048 has 9 MA's), (36,
8069), (37, 8072), (45, 8120), (53, 8180), (60, 8192), (64, 8219),

Gene: Lahqtemish_10 Start: 7738, Stop: 8001, Start Num: 28
Candidate Starts for Lahqtemish_10:
(Start: 25 @7729 has 1 MA's), (Start: 28 @7738 has 14 MA's), (44, 7807),

Gene: Lakshmi_13 Start: 10160, Stop: 10450, Start Num: 30
Candidate Starts for Lakshmi_13:
(Start: 30 @10160 has 133 MA's), (38, 10184), (48, 10259), (50, 10268), (52, 10286), (64, 10367),

Gene: Lasagna_9 Start: 7243, Stop: 7512, Start Num: 30
Candidate Starts for Lasagna_9:
(Start: 30 @7243 has 133 MA's), (46, 7321), (48, 7342), (64, 7429),

Gene: Lennox_9 Start: 7243, Stop: 7512, Start Num: 30
Candidate Starts for Lennox_9:
(Start: 30 @7243 has 133 MA's), (48, 7342), (59, 7387), (64, 7429),

Gene: Leona_10 Start: 7706, Stop: 7960, Start Num: 32
Candidate Starts for Leona_10:
(10, 7448), (12, 7472), (13, 7508), (15, 7556), (22, 7664), (23, 7670), (Start: 32 @7706 has 9 MA's),
(37, 7730), (45, 7778), (46, 7787), (51, 7832), (60, 7850), (64, 7877),

Gene: LilStuart_9 Start: 7243, Stop: 7512, Start Num: 30
Candidate Starts for LilStuart_9:
(Start: 30 @7243 has 133 MA's), (46, 7321), (48, 7342), (64, 7429),

Gene: LimaBean_10 Start: 7654, Stop: 7911, Start Num: 30
Candidate Starts for LimaBean_10:
(Start: 25 @7642 has 1 MA's), (Start: 30 @7654 has 133 MA's), (38, 7675), (64, 7831), (70, 7882),

Gene: Litotes_13 Start: 10128, Stop: 10397, Start Num: 30
Candidate Starts for Litotes_13:
(Start: 25 @10116 has 1 MA's), (Start: 30 @10128 has 133 MA's), (36, 10146), (42, 10179), (48,
10227), (59, 10272), (64, 10314),

Gene: LittleTokyo_11 Start: 7988, Stop: 8242, Start Num: 32
Candidate Starts for LittleTokyo_11:
(Start: 32 @7988 has 9 MA's), (44, 8057), (62, 8153), (64, 8159),

Gene: Loviatar_18 Start: 7923, Stop: 8231, Start Num: 21
Candidate Starts for Loviatar_18:
(19, 7911), (21, 7923), (44, 8037), (64, 8151),

Gene: Lucy_9 Start: 7234, Stop: 7503, Start Num: 30
Candidate Starts for Lucy_9:
(Start: 30 @7234 has 133 MA's), (36, 7252), (48, 7333), (59, 7378), (64, 7420),

Gene: Lunar_12 Start: 8244, Stop: 8504, Start Num: 28
Candidate Starts for Lunar_12:
(Start: 25 @8235 has 1 MA's), (Start: 27 @8241 has 6 MA's), (Start: 28 @8244 has 14 MA's), (Start:
32 @8250 has 9 MA's), (37, 8274), (44, 8319), (53, 8382), (60, 8394),

Gene: Lynlen_10 Start: 7668, Stop: 7928, Start Num: 30

Candidate Starts for Lynlen_10:

(Start: 25 @7656 has 1 MA's), (Start: 30 @7668 has 133 MA's), (38, 7692), (64, 7848), (66, 7863), (70, 7899),

Gene: Makoto_9 Start: 7243, Stop: 7512, Start Num: 30

Candidate Starts for Makoto_9:

(Start: 30 @7243 has 133 MA's), (48, 7342), (59, 7387), (64, 7429),

Gene: MamaPearl_9 Start: 7287, Stop: 7556, Start Num: 30

Candidate Starts for MamaPearl_9:

(Start: 30 @7287 has 133 MA's), (48, 7386), (49, 7392), (64, 7473),

Gene: Maria1952_9 Start: 7263, Stop: 7550, Start Num: 30

Candidate Starts for Maria1952_9:

(Start: 30 @7263 has 133 MA's), (47, 7344), (48, 7362), (64, 7470), (73, 7542),

Gene: MeganNoll_13 Start: 10158, Stop: 10427, Start Num: 30

Candidate Starts for MeganNoll_13:

(Start: 30 @10158 has 133 MA's), (42, 10209), (44, 10224), (48, 10257),

Gene: Melons_12 Start: 8241, Stop: 8504, Start Num: 27

Candidate Starts for Melons_12:

(Start: 25 @8235 has 1 MA's), (Start: 27 @8241 has 6 MA's), (Start: 28 @8244 has 14 MA's), (Start: 32 @8250 has 9 MA's), (37, 8274), (44, 8319), (53, 8382), (60, 8394),

Gene: Misaeng_13 Start: 10206, Stop: 10496, Start Num: 30

Candidate Starts for Misaeng_13:

(11, 9945), (Start: 30 @10206 has 133 MA's), (38, 10230), (44, 10272), (48, 10305), (52, 10332), (64, 10413),

Gene: Moki_9 Start: 7245, Stop: 7514, Start Num: 30

Candidate Starts for Moki_9:

(Start: 30 @7245 has 133 MA's), (36, 7263), (48, 7344), (59, 7389), (64, 7431),

Gene: MrGloopy_13 Start: 10091, Stop: 10360, Start Num: 30

Candidate Starts for MrGloopy_13:

(Start: 30 @10091 has 133 MA's), (42, 10142), (44, 10157), (48, 10190),

Gene: Nancia_9 Start: 7243, Stop: 7512, Start Num: 30

Candidate Starts for Nancia_9:

(Start: 30 @7243 has 133 MA's), (46, 7321), (48, 7342), (64, 7429),

Gene: Nicky22_11 Start: 8102, Stop: 8359, Start Num: 30

Candidate Starts for Nicky22_11:

(Start: 25 @8090 has 1 MA's), (Start: 30 @8102 has 133 MA's), (38, 8123), (64, 8279), (66, 8294), (70, 8330),

Gene: Nubia_13 Start: 10120, Stop: 10410, Start Num: 30

Candidate Starts for Nubia_13:

(Start: 25 @10108 has 1 MA's), (Start: 30 @10120 has 133 MA's), (38, 10144), (44, 10186), (48, 10219), (50, 10228), (52, 10246), (64, 10327),

Gene: OMalley_9 Start: 7261, Stop: 7548, Start Num: 30

Candidate Starts for OMalley_9:

(Start: 30 @7261 has 133 MA's), (48, 7360), (64, 7468), (73, 7540),

Gene: Olliecat_10 Start: 7885, Stop: 8151, Start Num: 30

Candidate Starts for Olliecat_10:

(Start: 25 @7873 has 1 MA's), (Start: 30 @7885 has 133 MA's), (36, 7909), (48, 7990), (58, 8032), (64, 8068), (66, 8083),

Gene: Orcanus_11 Start: 8038, Stop: 8292, Start Num: 32

Candidate Starts for Orcanus_11:

(16, 7909), (17, 7924), (23, 8002), (24, 8020), (Start: 32 @8038 has 9 MA's), (37, 8062), (56, 8176), (60, 8182), (65, 8212),

Gene: OurGirlNessie_9 Start: 7234, Stop: 7503, Start Num: 30

Candidate Starts for OurGirlNessie_9:

(Start: 30 @7234 has 133 MA's), (46, 7312), (48, 7333), (64, 7420),

Gene: Oxynfrius_13 Start: 10133, Stop: 10423, Start Num: 30

Candidate Starts for Oxynfrius_13:

(Start: 30 @10133 has 133 MA's), (38, 10157), (48, 10232), (50, 10241), (52, 10259), (64, 10340),

Gene: PartyCup_13 Start: 10175, Stop: 10444, Start Num: 30

Candidate Starts for PartyCup_13:

(Start: 25 @10163 has 1 MA's), (Start: 30 @10175 has 133 MA's), (36, 10193), (42, 10226), (48, 10274), (59, 10319), (64, 10361),

Gene: Phisb_10 Start: 7645, Stop: 7905, Start Num: 30

Candidate Starts for Phisb_10:

(Start: 25 @7633 has 1 MA's), (Start: 30 @7645 has 133 MA's), (38, 7669), (64, 7825), (66, 7840), (70, 7876),

Gene: PhluffyCoco_10 Start: 7619, Stop: 7909, Start Num: 23

Candidate Starts for PhluffyCoco_10:

(23, 7619), (Start: 32 @7655 has 9 MA's), (37, 7679), (44, 7724), (46, 7736), (51, 7781), (53, 7787), (60, 7799), (64, 7826),

Gene: PinkFriday_9 Start: 7264, Stop: 7551, Start Num: 30

Candidate Starts for PinkFriday_9:

(Start: 30 @7264 has 133 MA's), (42, 7315), (48, 7363), (64, 7471), (73, 7543),

Gene: PitaDog_9 Start: 7234, Stop: 7503, Start Num: 30

Candidate Starts for PitaDog_9:

(Start: 30 @7234 has 133 MA's), (48, 7333), (59, 7378), (64, 7420),

Gene: Polka_11 Start: 8080, Stop: 8343, Start Num: 27

Candidate Starts for Polka_11:

(Start: 25 @8074 has 1 MA's), (Start: 27 @8080 has 6 MA's), (Start: 28 @8083 has 14 MA's), (Start: 32 @8089 has 9 MA's), (37, 8113), (44, 8158), (53, 8221), (60, 8233),

Gene: Potatoes_13 Start: 10152, Stop: 10421, Start Num: 30

Candidate Starts for Potatoes_13:

(Start: 30 @10152 has 133 MA's), (42, 10203), (44, 10218), (48, 10251),

Gene: Preamble_9 Start: 7244, Stop: 7513, Start Num: 30
Candidate Starts for Preamble_9:
(Start: 30 @7244 has 133 MA's), (48, 7343), (59, 7388), (64, 7430), (68, 7457),

Gene: Pterodactyl_9 Start: 7235, Stop: 7504, Start Num: 30
Candidate Starts for Pterodactyl_9:
(Start: 30 @7235 has 133 MA's), (48, 7334), (59, 7379), (64, 7421),

Gene: Pumancara_9 Start: 7263, Stop: 7550, Start Num: 30
Candidate Starts for Pumancara_9:
(Start: 30 @7263 has 133 MA's), (42, 7314), (48, 7362), (64, 7470), (73, 7542),

Gene: QMacho_11 Start: 8135, Stop: 8395, Start Num: 30
Candidate Starts for QMacho_11:
(Start: 25 @8123 has 1 MA's), (Start: 30 @8135 has 133 MA's), (38, 8159), (64, 8315), (66, 8330),

Gene: Quenya_11 Start: 7781, Stop: 8044, Start Num: 30
Candidate Starts for Quenya_11:
(20, 7724), (Start: 30 @7781 has 133 MA's), (38, 7808), (39, 7823), (64, 7964),

Gene: RAP15_13 Start: 10158, Stop: 10427, Start Num: 30
Candidate Starts for RAP15_13:
(Start: 30 @10158 has 133 MA's), (42, 10209), (44, 10224), (48, 10257),

Gene: RcigaStruga_13 Start: 10141, Stop: 10431, Start Num: 30
Candidate Starts for RcigaStruga_13:
(4, 9655), (7, 9742), (11, 9880), (Start: 30 @10141 has 133 MA's), (38, 10165), (48, 10240), (52, 10267), (64, 10348),

Gene: RedFox_10 Start: 7655, Stop: 7909, Start Num: 32
Candidate Starts for RedFox_10:
(23, 7619), (Start: 32 @7655 has 9 MA's), (37, 7679), (44, 7724), (46, 7736), (51, 7781), (53, 7787), (60, 7799), (64, 7826),

Gene: Renna12_11 Start: 7855, Stop: 8109, Start Num: 32
Candidate Starts for Renna12_11:
(Start: 32 @7855 has 9 MA's), (37, 7879), (44, 7924), (46, 7936), (51, 7981), (53, 7987), (60, 7999), (64, 8026),

Gene: Riovina_9 Start: 7261, Stop: 7548, Start Num: 30
Candidate Starts for Riovina_9:
(Start: 30 @7261 has 133 MA's), (48, 7360), (64, 7468), (73, 7540),

Gene: Riverdale_13 Start: 10089, Stop: 10358, Start Num: 30
Candidate Starts for Riverdale_13:
(Start: 30 @10089 has 133 MA's), (42, 10140), (44, 10155), (48, 10188),

Gene: Rollins_9 Start: 7485, Stop: 7748, Start Num: 30
Candidate Starts for Rollins_9:
(20, 7428), (Start: 30 @7485 has 133 MA's), (35, 7500), (38, 7515), (58, 7632), (67, 7692), (71, 7722),

Gene: Rona_10 Start: 7882, Stop: 8139, Start Num: 30
Candidate Starts for Rona_10:

(Start: 30 @7882 has 133 MA's), (44, 7945), (64, 8059), (69, 8104),

Gene: Rozby_13 Start: 10089, Stop: 10358, Start Num: 30

Candidate Starts for Rozby_13:

(Start: 30 @10089 has 133 MA's), (42, 10140), (44, 10155), (48, 10188),

Gene: Ruchi_11 Start: 8341, Stop: 8598, Start Num: 30

Candidate Starts for Ruchi_11:

(5, 7879), (8, 7987), (9, 8032), (15, 8188), (Start: 30 @8341 has 133 MA's), (53, 8479), (62, 8509),

Gene: SanaSana_11 Start: 7900, Stop: 8160, Start Num: 26

Candidate Starts for SanaSana_11:

(Start: 26 @7900 has 2 MA's), (44, 7966),

Gene: SansAfet_10 Start: 7665, Stop: 7922, Start Num: 30

Candidate Starts for SansAfet_10:

(Start: 25 @7653 has 1 MA's), (Start: 30 @7665 has 133 MA's), (38, 7686), (63, 7839), (64, 7842), (66, 7857), (70, 7893),

Gene: SarBear_10 Start: 7625, Stop: 7888, Start Num: 28

Candidate Starts for SarBear_10:

(Start: 25 @7616 has 1 MA's), (Start: 28 @7625 has 14 MA's), (38, 7652), (64, 7808), (66, 7823),

Gene: Savage2526_13 Start: 10152, Stop: 10421, Start Num: 30

Candidate Starts for Savage2526_13:

(Start: 30 @10152 has 133 MA's), (42, 10203), (44, 10218), (48, 10251),

Gene: Scuttle_13 Start: 10158, Stop: 10427, Start Num: 30

Candidate Starts for Scuttle_13:

(Start: 30 @10158 has 133 MA's), (42, 10209), (44, 10224), (48, 10257),

Gene: Sergei_9 Start: 7263, Stop: 7550, Start Num: 30

Candidate Starts for Sergei_9:

(Start: 30 @7263 has 133 MA's), (47, 7344), (48, 7362), (64, 7470), (73, 7542),

Gene: Shambre1_11 Start: 8534, Stop: 8782, Start Num: 30

Candidate Starts for Shambre1_11:

(Start: 30 @8534 has 133 MA's), (45, 8600), (54, 8654),

Gene: Sharkboy_10 Start: 7881, Stop: 8138, Start Num: 30

Candidate Starts for Sharkboy_10:

(Start: 30 @7881 has 133 MA's), (44, 7944), (64, 8058), (69, 8103),

Gene: Shayna_9 Start: 7487, Stop: 7753, Start Num: 28

Candidate Starts for Shayna_9:

(Start: 25 @7478 has 1 MA's), (Start: 28 @7487 has 14 MA's), (36, 7511), (38, 7517), (48, 7592), (58, 7634), (63, 7667), (72, 7733),

Gene: Skylord_9 Start: 7425, Stop: 7688, Start Num: 30

Candidate Starts for Skylord_9:

(20, 7368), (Start: 30 @7425 has 133 MA's), (35, 7440), (38, 7455), (58, 7572), (67, 7632), (71, 7662),

Gene: Slay_10 Start: 8101, Stop: 8364, Start Num: 28

Candidate Starts for Slay_10:
(Start: 25 @8092 has 1 MA's), (Start: 28 @8101 has 14 MA's), (38, 8128), (64, 8284), (66, 8299),

Gene: Stoor_10 Start: 7897, Stop: 8157, Start Num: 26
Candidate Starts for Stoor_10:
(Start: 26 @7897 has 2 MA's), (44, 7963),

Gene: Stromboli_10 Start: 7898, Stop: 8161, Start Num: 28
Candidate Starts for Stromboli_10:
(Start: 28 @7898 has 14 MA's), (33, 7910), (38, 7925), (58, 8042), (64, 8081), (66, 8096),

Gene: SunnyD_9 Start: 7487, Stop: 7753, Start Num: 28
Candidate Starts for SunnyD_9:
(Start: 25 @7478 has 1 MA's), (Start: 28 @7487 has 14 MA's), (36, 7511), (38, 7517), (58, 7634), (63, 7667), (72, 7733),

Gene: Supakev_9 Start: 7263, Stop: 7550, Start Num: 30
Candidate Starts for Supakev_9:
(Start: 30 @7263 has 133 MA's), (42, 7314), (48, 7362), (64, 7470),

Gene: Suppi_13 Start: 10175, Stop: 10444, Start Num: 30
Candidate Starts for Suppi_13:
(Start: 25 @10163 has 1 MA's), (Start: 30 @10175 has 133 MA's), (36, 10193), (46, 10253), (48, 10274), (64, 10361),

Gene: Swervy_10 Start: 7625, Stop: 7888, Start Num: 28
Candidate Starts for Swervy_10:
(Start: 25 @7616 has 1 MA's), (Start: 28 @7625 has 14 MA's), (38, 7652), (64, 7808), (66, 7823),

Gene: TattModd_13 Start: 10152, Stop: 10421, Start Num: 30
Candidate Starts for TattModd_13:
(Start: 30 @10152 has 133 MA's), (42, 10203), (44, 10218), (48, 10251),

Gene: TaylorSipht_11 Start: 8123, Stop: 8377, Start Num: 32
Candidate Starts for TaylorSipht_11:
(23, 8087), (24, 8105), (Start: 32 @8123 has 9 MA's), (37, 8147), (45, 8195), (46, 8204),

Gene: Temper16_9 Start: 7263, Stop: 7550, Start Num: 30
Candidate Starts for Temper16_9:
(Start: 30 @7263 has 133 MA's), (47, 7344), (48, 7362), (64, 7470), (73, 7542),

Gene: TukTuk_10 Start: 7628, Stop: 7948, Start Num: 30
Candidate Starts for TukTuk_10:
(Start: 25 @7616 has 1 MA's), (Start: 30 @7628 has 133 MA's), (38, 7712), (64, 7868), (66, 7883),

Gene: Urla_9 Start: 7290, Stop: 7559, Start Num: 30
Candidate Starts for Urla_9:
(Start: 30 @7290 has 133 MA's), (48, 7389), (49, 7395), (64, 7476),

Gene: Vallejo_13 Start: 10090, Stop: 10359, Start Num: 30
Candidate Starts for Vallejo_13:
(Start: 30 @10090 has 133 MA's), (42, 10141), (44, 10156), (48, 10189),

Gene: Vitas_9 Start: 7425, Stop: 7688, Start Num: 30

Candidate Starts for Vitas_9:

(20, 7368), (Start: 30 @7425 has 133 MA's), (35, 7440), (38, 7455), (58, 7572), (67, 7632), (71, 7662),

Gene: Vulpecula_11 Start: 8417, Stop: 8674, Start Num: 30

Candidate Starts for Vulpecula_11:

(1, 7796), (2, 7841), (5, 7955), (8, 8063), (15, 8264), (23, 8381), (Start: 30 @8417 has 133 MA's), (62, 8585),

Gene: Vulture_9 Start: 7261, Stop: 7548, Start Num: 30

Candidate Starts for Vulture_9:

(Start: 30 @7261 has 133 MA's), (48, 7360), (64, 7468),

Gene: Wawa_13 Start: 10127, Stop: 10396, Start Num: 30

Candidate Starts for Wawa_13:

(Start: 30 @10127 has 133 MA's), (42, 10178), (44, 10193), (48, 10226),

Gene: Wayne_13 Start: 10221, Stop: 10490, Start Num: 30

Candidate Starts for Wayne_13:

(Start: 25 @10209 has 1 MA's), (Start: 30 @10221 has 133 MA's), (36, 10239), (46, 10299), (48, 10320), (64, 10407),

Gene: WonderBoy_9 Start: 7243, Stop: 7512, Start Num: 30

Candidate Starts for WonderBoy_9:

(Start: 30 @7243 has 133 MA's), (48, 7342), (64, 7429),

Gene: Zorro_13 Start: 10106, Stop: 10375, Start Num: 30

Candidate Starts for Zorro_13:

(Start: 30 @10106 has 133 MA's), (42, 10157), (44, 10172), (48, 10205),