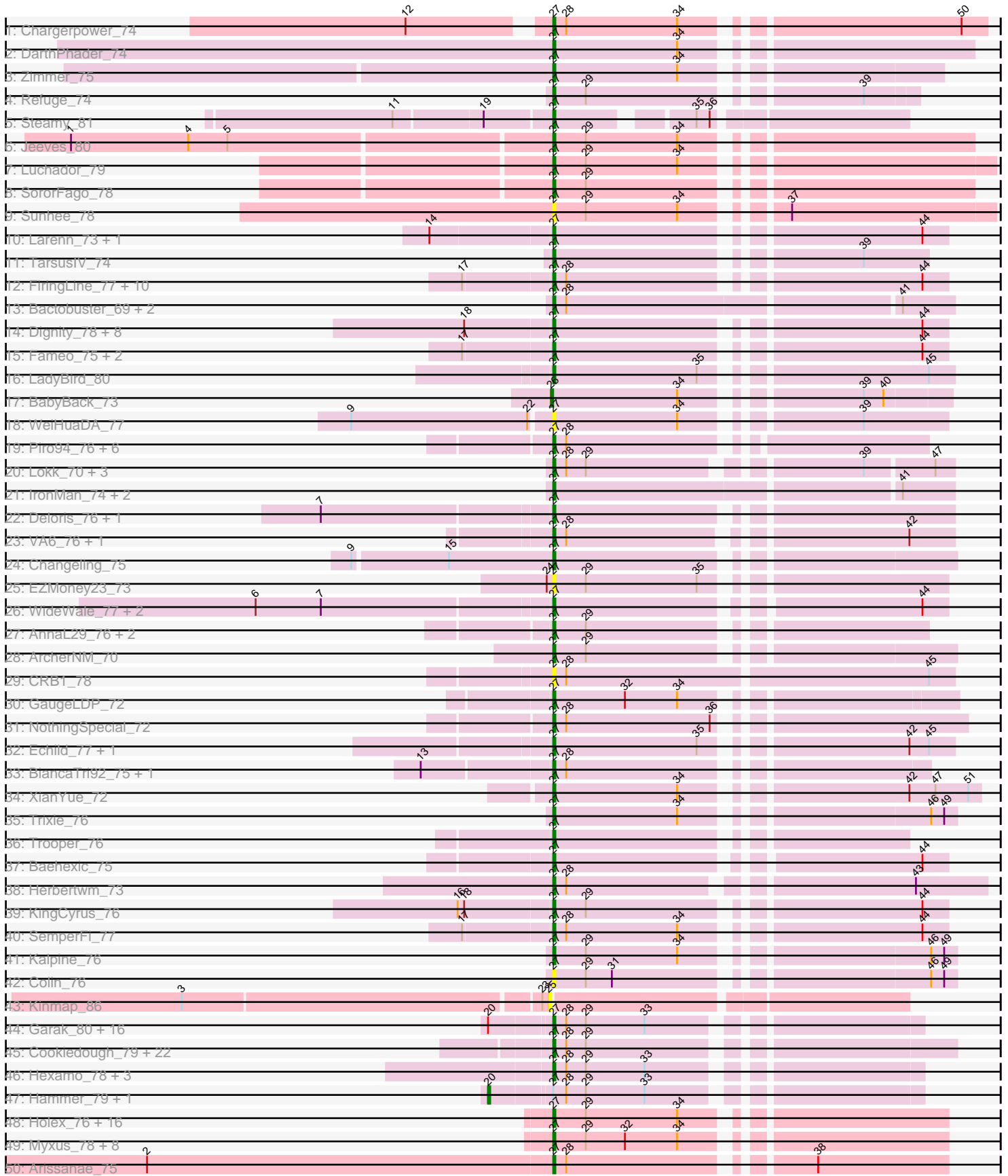
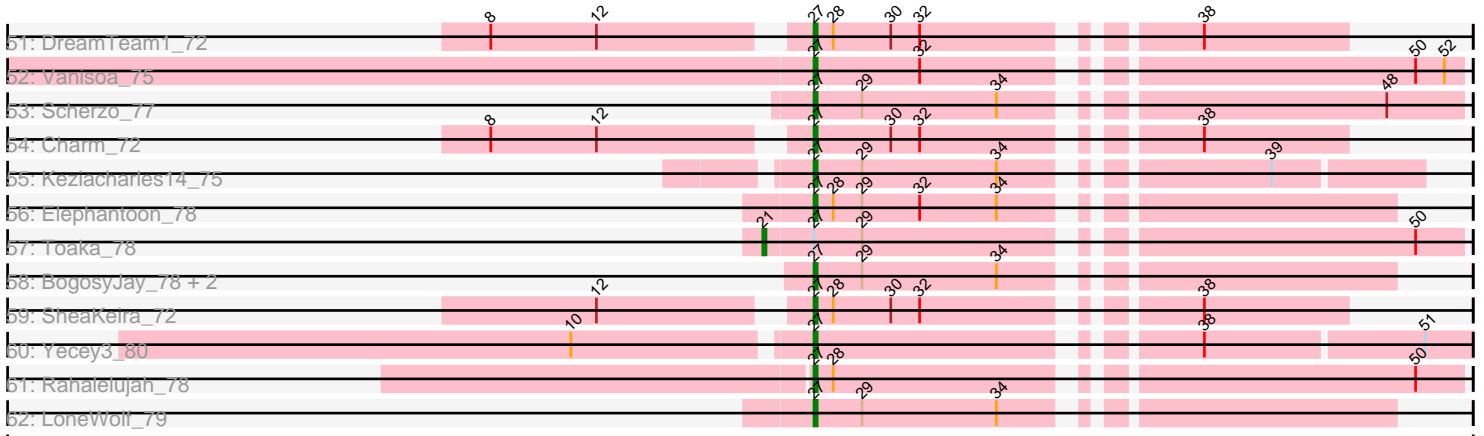


Pham 202716



Pham 202716



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 202716 Report

This analysis was run 01/18/25 on database version 583.

Pham number 202716 has 172 members, 22 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_74
- Track 2 : DarthPhader_74
- Track 3 : Zimmer_75
- Track 4 : Refuge_74
- Track 5 : Steamy_81
- Track 6 : Jeeves_80
- Track 7 : Luchador_79
- Track 8 : SororFago_78
- Track 9 : Sunhee_78
- Track 10 : Larenn_73, Malec_74
- Track 11 : TarsusIV_74
- Track 12 : FiringLine_77, Retro23_77, Power_76, Dalmatian_77, DudeLittle_75, SweetiePie_76, QueenBeesly_77, Crucio_77, SnapTap_76, Georgie2_78, Anselm_78
- Track 13 : Bactobuster_69, Landor_75, Phaded_72
- Track 14 : Dignity_78, Agape74_78, Jerm_78, Leviathan_78, Smeagan_79, LilTurb_77, AbbyPaige_78, Turbido_77, Buggy_78
- Track 15 : Fameo_75, QueenB2_74, Heffalump_74
- Track 16 : LadyBird_80
- Track 17 : BabyBack_73
- Track 18 : WeiHuaDA_77
- Track 19 : Piro94_76, 20ES_78, JoshKayV_77, First_0077, HarryHoudini_77, Iwokeuplikedis_78, Drake55_78
- Track 20 : Lokk_70, Rachaly_72, BobSwaget_69, Miko_70
- Track 21 : IronMan_74, Pukovnik_73, Jaan_75
- Track 22 : Deloris_76, BengiVuitton_76
- Track 23 : VA6_76, AN3_78
- Track 24 : Changeling_75
- Track 25 : EZMoney23_73
- Track 26 : WideWale_77, Updawg_77, Equemioh13_76
- Track 27 : AnnaL29_76, Loser_78, RedRock_75
- Track 28 : ArcherNM_70
- Track 29 : CRB1_78
- Track 30 : GaugeLDP_72
- Track 31 : NothingSpecial_72
- Track 32 : Echild_77, Benvolio_74
- Track 33 : BiancaTri92_75, Leogania_75

- Track 34 : XianYue_72
- Track 35 : Trixie_76
- Track 36 : Trooper_76
- Track 37 : Baehexic_75
- Track 38 : Herbertwm_73
- Track 39 : KingCyrus_76
- Track 40 : SemperFi_77
- Track 41 : Kalpine_76
- Track 42 : Colin_76
- Track 43 : Kinmap_86
- Track 44 : Garak_80, Zaka_79, Lilbunny_78, Rifter_79, Tucker_79, ToneTone_76, Indra_82, Yokurt_78, WunderPhul_79, Zulu_80, Helmet_80, BlessJoy_78, Gruunaga_78, CloudWang3_79, Blue7_80, Temprado_80, Wiks_78
- Track 45 : Cookiedough_79, DaVinci_77, Hoot_74, Kazan_80, Neeharika16_78, Jordennis_77, VohminGhazi_79, Kipper29_79, Candra_77, Isiphiwo_76, SmellyB_79, Blinn1_83, SuperCallie99_76, BABullseye_72, GreedyLawyer_74, EricB_78, Priamo_81, Newrala_78, Dorothea_79, Pmask_78, McFly_80, SuperAwesome_79, Chartreuse_76
- Track 46 : Hexamo_78, Artemis2UCLA_78, Koko_80, Roksolana_79
- Track 47 : Hammer_79, Gladiator_76
- Track 48 : Holes_76, Conquerage_76, Alma_76, Fayely_76, Spouty_76, Priya_76, Qobbit_76, ExplosioNervosa_76, Beemo_78, Phonnegut_78, Jiawan_75, Pioneer_78, Hanray_76, RyeScarlet_79, Onglai_76, Eidsmoe_76, EmyBug_75
- Track 49 : Myxus_78, Tubs_78, Sachima_74, HortumSL17_79, PackMan_77, Catalina_80, Phaeder_78, Lilleskat_75, EdogawaKiddo_76
- Track 50 : Arissanae_75
- Track 51 : DreamTeam1_72
- Track 52 : Vanisoa_75
- Track 53 : Scherzo_77
- Track 54 : Charm_72
- Track 55 : Keziacharles14_75
- Track 56 : Elephantoon_78
- Track 57 : Toaka_78
- Track 58 : BogosyJay_78, Maminiaina_78, Gail_78
- Track 59 : SheaKeira_72
- Track 60 : Yecey3_80
- Track 61 : Rahalelujah_78
- Track 62 : LoneWolf_79

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

The start number called the most often in the published annotations is 27, it was called in 146 of the 150 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 20ES_78, AN3_78, AbbyPaige_78, Agape74_78, Alma_76, AnnaL29_76, Anselm_78, ArcherNM_70, Arissanae_75, Artemis2UCLA_78, BABullseye_72, Bactobuster_69, Baehexic_75, Beemo_78, BengiVuitton_76, Benvolio_74, BiancaTri92_75, BlessJoy_78, Blinn1_83, Blue7_80, BobSwaget_69, BogosyJay_78, Buggy_78, CRB1_78, Candra_77, Catalina_80, Changeling_75, Chargerpower_74,

Charm_72, Chartreuse_76, CloudWang3_79, Colin_76, Conquerage_76, Cookiedough_79, Crucio_77, DaVinci_77, Dalmatian_77, DarthPhader_74, Deloris_76, Dignity_78, Dorothea_79, Drake55_78, DreamTeam1_72, DudeLittle_75, EZMoney23_73, Echid_77, EdogawaKiddo_76, Eidsmoe_76, Elephanto_78, EmyBug_75, Equemioh13_76, EricB_78, ExplosioNervosa_76, Fameo_75, Fayely_76, FiringLine_77, First_0077, Gail_78, Garak_80, GaugeLDP_72, Georgie2_78, GreedyLawyer_74, Gruunaga_78, Hanray_76, HarryHoudini_77, Heffalump_74, Helmet_80, Herbertwm_73, Hexamo_78, Holes_76, Hoot_74, HortumSL17_79, Indra_82, IronMan_74, Isiphiwo_76, Iwokeuplikedis_78, Jaan_75, Jeeves_80, Jerm_78, Jiawan_75, Jordennis_77, JoshKayV_77, Kalpine_76, Kazan_80, Keziacharles14_75, KingCyrus_76, Kipper29_79, Koko_80, LadyBird_80, Landor_75, Larenn_73, Leogania_75, Leviathan_78, LilTurb_77, Lilbunny_78, Lilleskat_75, Lokk_70, LoneWolf_79, Loser_78, Luchador_79, Malec_74, Maminiaina_78, McFly_80, Miko_70, Myxus_78, Neeharika16_78, Newrala_78, NothingSpecial_72, Onglai_76, PackMan_77, Phaded_72, Phaeder_78, Phonnegut_78, Pioneer_78, Piro94_76, Pmask_78, Power_76, Priamo_81, Priya_76, Pukovnik_73, Qobbit_76, QueenB2_74, QueenBeesly_77, Rachaly_72, Rahalelujah_78, RedRock_75, Refuge_74, Retro23_77, Rifter_79, Roksolana_79, RyeScarlet_79, Sachima_74, Scherzo_77, SemperFi_77, SheaKeira_72, Smeagan_79, SmellyB_79, SnapTap_76, SororFago_78, Spouty_76, Steamy_81, Sunhee_78, SuperAwesome_79, SuperCallie99_76, SweetiePie_76, TarsusIV_74, Temprado_80, ToneTone_76, Trixie_76, Trooper_76, Tubs_78, Tucker_79, Turbido_77, Updawg_77, VA6_76, Vanisoa_75, VohminGhazi_79, WeiHuaDA_77, WideWale_77, Wiks_78, WunderPhul_79, XianYue_72, Yecey3_80, Yokurt_78, Zaka_79, Zimmer_75, Zulu_80,

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

- Gladiator_76, Hammer_79, Toaka_78,

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

- BabyBack_73, Kinmap_86,

Summary by start number:

Start 20:

- Found in 19 of 172 (11.0%) of genes in pham
- Manual Annotations of this start: 2 of 150
- Called 10.5% of time when present
- Phage (with cluster) where this start called: Gladiator_76 (A6), Hammer_79 (A6),

Start 21:

- Found in 1 of 172 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 150
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Toaka_78 (A9),

Start 25:

- Found in 1 of 172 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kinmap_86 (A21),

Start 26:

- Found in 1 of 172 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 150
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BabyBack_73 (A2),

Start 27:

- Found in 170 of 172 (98.8%) of genes in pham
- Manual Annotations of this start: 146 of 150
- Called 98.2% of time when present
- Phage (with cluster) where this start called: 20ES_78 (A2), AN3_78 (A2), AbbyPaige_78 (A2), Agape74_78 (A2), Alma_76 (A9), AnnaL29_76 (A2), Anselm_78 (A2), ArcherNM_70 (A2), Arissanae_75 (A9), Artemis2UCLA_78 (A6), BABullseye_72 (A6), Bactobuster_69 (A2), Baehexic_75 (A2), Beemo_78 (A9), BengiVuitton_76 (A2), Benvolio_74 (A2), BiancaTri92_75 (A2), BlessJoy_78 (A6), Blinn1_83 (A6), Blue7_80 (A6), BobSwaget_69 (A2), BogosyJay_78 (A9), Buggy_78 (A2), CRB1_78 (A2), Candra_77 (A6), Catalina_80 (A9), Changeling_75 (A2), Chargerpower_74 (A), Charm_72 (A9), Chartreuse_76 (A6), CloudWang3_79 (A6), Colin_76 (A2), Conquerage_76 (A9), Cookiedough_79 (A6), Crucio_77 (A2), DaVinci_77 (A6), Dalmatian_77 (A2), DarthPhader_74 (A12), Deloris_76 (A2), Dignity_78 (A2), Dorothea_79 (A6), Drake55_78 (A2), DreamTeam1_72 (A9), DudeLittle_75 (A2), EZMoney23_73 (A2), Echild_77 (A2), EdogawaKiddo_76 (A9), Eidsmoe_76 (A9), Elephantoon_78 (A9), EmyBug_75 (A9), Equemioh13_76 (A2), EricB_78 (A6), ExplosioNervosa_76 (A9), Fameo_75 (A2), Fayely_76 (A9), FiringLine_77 (A2), First_0077 (A2), Gail_78 (A14), Garak_80 (A6), GaugeLDP_72 (A2), Georgie2_78 (A2), GreedyLawyer_74 (A6), Gruunaga_78 (A6), Hanray_76 (A9), HarryHoudini_77 (A2), Heffalump_74 (A2), Helmet_80 (A6), Herbertwm_73 (A2), Hexamo_78 (A6), Horex_76 (A9), Hoot_74 (A6), HortumSL17_79 (A9), Indra_82 (A6), IronMan_74 (A2), Isiphiwo_76 (A6), Iwokeuplikedis_78 (A2), Jaan_75 (A2), Jeeves_80 (A14), Jerm_78 (A2), Jiawan_75 (A9), Jordennis_77 (A6), JoshKayV_77 (A2), Kalpine_76 (A2), Kazan_80 (A6), Keziacharles14_75 (A9), KingCyrus_76 (A2), Kipper29_79 (A6), Koko_80 (A6), LadyBird_80 (A2), Landor_75 (A2), Larenn_73 (A2), Leogania_75 (A2), Leviathan_78 (A2), LilTurb_77 (A2), Lilbunny_78 (A6), Lilleskat_75 (A9), Lokk_70 (A2), LoneWolf_79 (A9), Loser_78 (A2), Luchador_79 (A14), Malec_74 (A2), Maminiaina_78 (A9), McFly_80 (A6), Miko_70 (A2), Myxus_78 (A9), Neeharika16_78 (A6), Newrala_78 (A6), NothingSpecial_72 (A2), Onglai_76 (A9), PackMan_77 (A9), Phaded_72 (A2), Phaeder_78 (A9), Phonnegut_78 (A9), Pioneer_78 (A9), Piro94_76 (A2), Pmask_78 (A6), Power_76 (A2), Priamo_81 (A6), Priya_76 (A9), Pukovnik_73 (A2), Qobbit_76 (A9), QueenB2_74 (A2), QueenBeesly_77 (A2), Rachaly_72 (A2), Rahalelujah_78 (A9), RedRock_75 (A2), Refuge_74 (A12), Retro23_77 (A2), Rifter_79 (A6), Roksolana_79 (A6), RyeScarlet_79 (A9), Sachima_74 (A9), Scherzo_77 (A9), SemperFi_77 (A2), SheaKeira_72 (A9), Smeagan_79 (A2), SmellyB_79 (A6), SnapTap_76 (A2), SororFago_78 (A14), Spouty_76 (A9), Steamy_81 (A12), Sunhee_78 (A14), SuperAwesome_79 (A6), SuperCallie99_76 (A6), SweetiePie_76 (A2), TarsusIV_74 (A2), Temprado_80 (A6), ToneTone_76 (A6), Trixie_76 (A2), Trooper_76 (A2), Tubs_78 (A9), Tucker_79 (A6), Turbido_77 (A2), Updawg_77 (A2), VA6_76 (A2), Vanisoa_75 (A9), VohminGhazi_79 (A6), WeiHuaDA_77 (A2), WideWale_77 (A2), Wiks_78 (A6), WunderPhul_79 (A6), XianYue_72 (A2), Yecey3_80 (A9), Yokurt_78 (A6), Zaka_79 (A6), Zimmer_75 (A12), Zulu_80 (A6),

Summary by clusters:

There are 7 clusters represented in this pham: A, A14, A12, A21, A2, A6, A9,

Info for manual annotations of cluster A:

- Start number 27 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A12:

- Start number 27 was manually annotated 4 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 27 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A2:

- Start number 26 was manually annotated 1 time for cluster A2.
- Start number 27 was manually annotated 68 times for cluster A2.

Info for manual annotations of cluster A6:

- Start number 20 was manually annotated 2 times for cluster A6.
- Start number 27 was manually annotated 38 times for cluster A6.

Info for manual annotations of cluster A9:

- Start number 21 was manually annotated 1 time for cluster A9.
- Start number 27 was manually annotated 31 times for cluster A9.

Gene Information:

Gene: 20ES_78 Start: 45905, Stop: 45738, Start Num: 27

Candidate Starts for 20ES_78:

(Start: 27 @45905 has 146 MA's), (28, 45899),

Gene: AN3_78 Start: 44672, Stop: 44505, Start Num: 27

Candidate Starts for AN3_78:

(Start: 27 @44672 has 146 MA's), (28, 44666), (42, 44525),

Gene: AbbyPaige_78 Start: 46176, Stop: 46012, Start Num: 27

Candidate Starts for AbbyPaige_78:

(18, 46215), (Start: 27 @46176 has 146 MA's), (44, 46023),

Gene: Agape74_78 Start: 46171, Stop: 46007, Start Num: 27

Candidate Starts for Agape74_78:

(18, 46210), (Start: 27 @46171 has 146 MA's), (44, 46018),

Gene: Alma_76 Start: 45089, Stop: 44925, Start Num: 27

Candidate Starts for Alma_76:

(Start: 27 @45089 has 146 MA's), (29, 45074), (34, 45032),

Gene: AnnaL29_76 Start: 46109, Stop: 45954, Start Num: 27

Candidate Starts for AnnaL29_76:

(Start: 27 @46109 has 146 MA's), (29, 46094),

Gene: Anselm_78 Start: 46243, Stop: 46079, Start Num: 27

Candidate Starts for Anselm_78:

(17, 46282), (Start: 27 @46243 has 146 MA's), (28, 46237), (44, 46090),

Gene: ArcherNM_70 Start: 45375, Stop: 45208, Start Num: 27

Candidate Starts for ArcherNM_70:

(Start: 27 @45375 has 146 MA's), (29, 45360),

Gene: Arissanae_75 Start: 45413, Stop: 45249, Start Num: 27

Candidate Starts for Arissanae_75:

(2, 45599), (Start: 27 @45413 has 146 MA's), (28, 45407), (38, 45308),

Gene: Artemis2UCLA_78 Start: 44266, Stop: 44114, Start Num: 27

Candidate Starts for Artemis2UCLA_78:

(Start: 27 @44266 has 146 MA's), (28, 44260), (29, 44251), (33, 44224),

Gene: BABullseye_72 Start: 42895, Stop: 42728, Start Num: 27

Candidate Starts for BABullseye_72:

(Start: 27 @42895 has 146 MA's), (28, 42889), (29, 42880),

Gene: BabyBack_73 Start: 45797, Stop: 45633, Start Num: 26

Candidate Starts for BabyBack_73:

(Start: 26 @45797 has 1 MA's), (34, 45740), (39, 45671), (40, 45662),

Gene: Bactobuster_69 Start: 45446, Stop: 45270, Start Num: 27

Candidate Starts for Bactobuster_69:

(Start: 27 @45446 has 146 MA's), (28, 45440), (41, 45293),

Gene: Baehexic_75 Start: 45567, Stop: 45403, Start Num: 27

Candidate Starts for Baehexic_75:

(Start: 27 @45567 has 146 MA's), (44, 45414),

Gene: Beemo_78 Start: 45129, Stop: 44965, Start Num: 27

Candidate Starts for Beemo_78:

(Start: 27 @45129 has 146 MA's), (29, 45114), (34, 45072),

Gene: BengiVuitton_76 Start: 45866, Stop: 45699, Start Num: 27

Candidate Starts for BengiVuitton_76:

(7, 45968), (Start: 27 @45866 has 146 MA's),

Gene: Benvolio_74 Start: 45472, Stop: 45305, Start Num: 27

Candidate Starts for Benvolio_74:

(Start: 27 @45472 has 146 MA's), (35, 45406), (42, 45325), (45, 45316),

Gene: BiancaTri92_75 Start: 45806, Stop: 45651, Start Num: 27

Candidate Starts for BiancaTri92_75:

(13, 45863), (Start: 27 @45806 has 146 MA's), (28, 45800),

Gene: BlessJoy_78 Start: 44788, Stop: 44636, Start Num: 27

Candidate Starts for BlessJoy_78:

(Start: 20 @44815 has 2 MA's), (Start: 27 @44788 has 146 MA's), (28, 44782), (29, 44773), (33, 44746),

Gene: Blinn1_83 Start: 45509, Stop: 45342, Start Num: 27

Candidate Starts for Blinn1_83:

(Start: 27 @45509 has 146 MA's), (28, 45503), (29, 45494),

Gene: Blue7_80 Start: 44486, Stop: 44334, Start Num: 27

Candidate Starts for Blue7_80:

(Start: 20 @44513 has 2 MA's), (Start: 27 @44486 has 146 MA's), (28, 44480), (29, 44471), (33, 44444),

Gene: BobSwaget_69 Start: 43679, Stop: 43515, Start Num: 27

Candidate Starts for BobSwaget_69:

(Start: 27 @43679 has 146 MA's), (28, 43673), (29, 43664), (39, 43553), (47, 43523),

Gene: BogosyJay_78 Start: 45362, Stop: 45198, Start Num: 27

Candidate Starts for BogosyJay_78:

(Start: 27 @45362 has 146 MA's), (29, 45347), (34, 45305),

Gene: Buggy_78 Start: 46221, Stop: 46057, Start Num: 27

Candidate Starts for Buggy_78:

(18, 46260), (Start: 27 @46221 has 146 MA's), (44, 46068),

Gene: CRB1_78 Start: 46424, Stop: 46245, Start Num: 27

Candidate Starts for CRB1_78:

(Start: 27 @46424 has 146 MA's), (28, 46418), (45, 46256),

Gene: Candra_77 Start: 44590, Stop: 44423, Start Num: 27

Candidate Starts for Candra_77:

(Start: 27 @44590 has 146 MA's), (28, 44584), (29, 44575),

Gene: Catalina_80 Start: 45183, Stop: 45019, Start Num: 27

Candidate Starts for Catalina_80:

(Start: 27 @45183 has 146 MA's), (29, 45168), (32, 45150), (34, 45126),

Gene: Changeling_75 Start: 46099, Stop: 45932, Start Num: 27

Candidate Starts for Changeling_75:

(9, 46189), (15, 46147), (Start: 27 @46099 has 146 MA's),

Gene: Chargerpower_74 Start: 44306, Stop: 44124, Start Num: 27

Candidate Starts for Chargerpower_74:

(12, 44363), (Start: 27 @44306 has 146 MA's), (28, 44300), (34, 44249), (50, 44135),

Gene: Charm_72 Start: 44293, Stop: 44144, Start Num: 27

Candidate Starts for Charm_72:

(8, 44383), (12, 44350), (Start: 27 @44293 has 146 MA's), (30, 44269), (32, 44260), (38, 44188),

Gene: Chartreuse_76 Start: 43901, Stop: 43734, Start Num: 27

Candidate Starts for Chartreuse_76:

(Start: 27 @43901 has 146 MA's), (28, 43895), (29, 43886),

Gene: CloudWang3_79 Start: 44778, Stop: 44626, Start Num: 27

Candidate Starts for CloudWang3_79:

(Start: 20 @44805 has 2 MA's), (Start: 27 @44778 has 146 MA's), (28, 44772), (29, 44763), (33, 44736),

Gene: Colin_76 Start: 46817, Stop: 46650, Start Num: 27

Candidate Starts for Colin_76:

(Start: 27 @46817 has 146 MA's), (29, 46802), (31, 46790), (46, 46661), (49, 46655),

Gene: Conquerage_76 Start: 44858, Stop: 44694, Start Num: 27

Candidate Starts for Conquerage_76:

(Start: 27 @44858 has 146 MA's), (29, 44843), (34, 44801),

Gene: Cookiedough_79 Start: 45205, Stop: 45038, Start Num: 27

Candidate Starts for Cookiedough_79:

(Start: 27 @45205 has 146 MA's), (28, 45199), (29, 45190),

Gene: Crucio_77 Start: 46142, Stop: 45978, Start Num: 27

Candidate Starts for Crucio_77:

(17, 46181), (Start: 27 @46142 has 146 MA's), (28, 46136), (44, 45989),

Gene: DaVinci_77 Start: 43955, Stop: 43788, Start Num: 27

Candidate Starts for DaVinci_77:

(Start: 27 @43955 has 146 MA's), (28, 43949), (29, 43940),

Gene: Dalmatian_77 Start: 45962, Stop: 45798, Start Num: 27

Candidate Starts for Dalmatian_77:

(17, 46001), (Start: 27 @45962 has 146 MA's), (28, 45956), (44, 45809),

Gene: DarthPhader_74 Start: 46216, Stop: 46040, Start Num: 27

Candidate Starts for DarthPhader_74:

(Start: 27 @46216 has 146 MA's), (34, 46159),

Gene: Deloris_76 Start: 45562, Stop: 45395, Start Num: 27

Candidate Starts for Deloris_76:

(7, 45664), (Start: 27 @45562 has 146 MA's),

Gene: Dignity_78 Start: 46259, Stop: 46095, Start Num: 27

Candidate Starts for Dignity_78:

(18, 46298), (Start: 27 @46259 has 146 MA's), (44, 46106),

Gene: Dorothea_79 Start: 45201, Stop: 45034, Start Num: 27

Candidate Starts for Dorothea_79:

(Start: 27 @45201 has 146 MA's), (28, 45195), (29, 45186),

Gene: Drake55_78 Start: 45846, Stop: 45691, Start Num: 27

Candidate Starts for Drake55_78:

(Start: 27 @45846 has 146 MA's), (28, 45840),

Gene: DreamTeam1_72 Start: 44140, Stop: 43991, Start Num: 27

Candidate Starts for DreamTeam1_72:

(8, 44230), (12, 44197), (Start: 27 @44140 has 146 MA's), (28, 44134), (30, 44116), (32, 44107), (38, 44035),

Gene: DudeLittle_75 Start: 45728, Stop: 45564, Start Num: 27

Candidate Starts for DudeLittle_75:

(17, 45767), (Start: 27 @45728 has 146 MA's), (28, 45722), (44, 45575),

Gene: EZMoney23_73 Start: 45628, Stop: 45464, Start Num: 27

Candidate Starts for EZMoney23_73:
(24, 45631), (Start: 27 @45628 has 146 MA's), (29, 45613), (35, 45562),

Gene: Echild_77 Start: 45496, Stop: 45329, Start Num: 27
Candidate Starts for Echild_77:
(Start: 27 @45496 has 146 MA's), (35, 45430), (42, 45349), (45, 45340),

Gene: EdogawaKiddo_76 Start: 45151, Stop: 44987, Start Num: 27
Candidate Starts for EdogawaKiddo_76:
(Start: 27 @45151 has 146 MA's), (29, 45136), (32, 45118), (34, 45094),

Gene: Eidsmoe_76 Start: 44850, Stop: 44686, Start Num: 27
Candidate Starts for Eidsmoe_76:
(Start: 27 @44850 has 146 MA's), (29, 44835), (34, 44793),

Gene: Elephantoon_78 Start: 45016, Stop: 44852, Start Num: 27
Candidate Starts for Elephantoon_78:
(Start: 27 @45016 has 146 MA's), (28, 45010), (29, 45001), (32, 44983), (34, 44959),

Gene: EmyBug_75 Start: 44852, Stop: 44688, Start Num: 27
Candidate Starts for EmyBug_75:
(Start: 27 @44852 has 146 MA's), (29, 44837), (34, 44795),

Gene: Equemioh13_76 Start: 45675, Stop: 45511, Start Num: 27
Candidate Starts for Equemioh13_76:
(6, 45807), (7, 45777), (Start: 27 @45675 has 146 MA's), (44, 45522),

Gene: EricB_78 Start: 44547, Stop: 44380, Start Num: 27
Candidate Starts for EricB_78:
(Start: 27 @44547 has 146 MA's), (28, 44541), (29, 44532),

Gene: ExplosioNervosa_76 Start: 44918, Stop: 44754, Start Num: 27
Candidate Starts for ExplosioNervosa_76:
(Start: 27 @44918 has 146 MA's), (29, 44903), (34, 44861),

Gene: Fameo_75 Start: 45770, Stop: 45606, Start Num: 27
Candidate Starts for Fameo_75:
(17, 45809), (Start: 27 @45770 has 146 MA's), (44, 45617),

Gene: Fayely_76 Start: 44819, Stop: 44655, Start Num: 27
Candidate Starts for Fayely_76:
(Start: 27 @44819 has 146 MA's), (29, 44804), (34, 44762),

Gene: FiringLine_77 Start: 46124, Stop: 45960, Start Num: 27
Candidate Starts for FiringLine_77:
(17, 46163), (Start: 27 @46124 has 146 MA's), (28, 46118), (44, 45971),

Gene: First_0077 Start: 45805, Stop: 45638, Start Num: 27
Candidate Starts for First_0077:
(Start: 27 @45805 has 146 MA's), (28, 45799),

Gene: Gail_78 Start: 46233, Stop: 46051, Start Num: 27
Candidate Starts for Gail_78:

(Start: 27 @46233 has 146 MA's), (29, 46218), (34, 46176),

Gene: Garak_80 Start: 44729, Stop: 44577, Start Num: 27

Candidate Starts for Garak_80:

(Start: 20 @44756 has 2 MA's), (Start: 27 @44729 has 146 MA's), (28, 44723), (29, 44714), (33, 44687),

Gene: GaugeLDP_72 Start: 45357, Stop: 45190, Start Num: 27

Candidate Starts for GaugeLDP_72:

(Start: 27 @45357 has 146 MA's), (32, 45324), (34, 45300),

Gene: Georgie2_78 Start: 46168, Stop: 46004, Start Num: 27

Candidate Starts for Georgie2_78:

(17, 46207), (Start: 27 @46168 has 146 MA's), (28, 46162), (44, 46015),

Gene: Gladiator_76 Start: 44659, Stop: 44480, Start Num: 20

Candidate Starts for Gladiator_76:

(Start: 20 @44659 has 2 MA's), (Start: 27 @44632 has 146 MA's), (28, 44626), (29, 44617), (33, 44590),

Gene: GreedyLawyer_74 Start: 44520, Stop: 44353, Start Num: 27

Candidate Starts for GreedyLawyer_74:

(Start: 27 @44520 has 146 MA's), (28, 44514), (29, 44505),

Gene: Gruunaga_78 Start: 44587, Stop: 44435, Start Num: 27

Candidate Starts for Gruunaga_78:

(Start: 20 @44614 has 2 MA's), (Start: 27 @44587 has 146 MA's), (28, 44581), (29, 44572), (33, 44545),

Gene: Hammer_79 Start: 44321, Stop: 44142, Start Num: 20

Candidate Starts for Hammer_79:

(Start: 20 @44321 has 2 MA's), (Start: 27 @44294 has 146 MA's), (28, 44288), (29, 44279), (33, 44252),

Gene: Hanray_76 Start: 45183, Stop: 45019, Start Num: 27

Candidate Starts for Hanray_76:

(Start: 27 @45183 has 146 MA's), (29, 45168), (34, 45126),

Gene: HarryHoudini_77 Start: 45843, Stop: 45688, Start Num: 27

Candidate Starts for HarryHoudini_77:

(Start: 27 @45843 has 146 MA's), (28, 45837),

Gene: Heffalump_74 Start: 46238, Stop: 46074, Start Num: 27

Candidate Starts for Heffalump_74:

(17, 46277), (Start: 27 @46238 has 146 MA's), (44, 46085),

Gene: Helmet_80 Start: 44729, Stop: 44577, Start Num: 27

Candidate Starts for Helmet_80:

(Start: 20 @44756 has 2 MA's), (Start: 27 @44729 has 146 MA's), (28, 44723), (29, 44714), (33, 44687),

Gene: Herbertwm_73 Start: 45474, Stop: 45292, Start Num: 27

Candidate Starts for Herbertwm_73:

(Start: 27 @45474 has 146 MA's), (28, 45468), (43, 45324),

Gene: Hexamo_78 Start: 44263, Stop: 44111, Start Num: 27

Candidate Starts for Hexamo_78:

(Start: 27 @44263 has 146 MA's), (28, 44257), (29, 44248), (33, 44221),

Gene: Holec_76 Start: 45199, Stop: 45035, Start Num: 27

Candidate Starts for Holec_76:

(Start: 27 @45199 has 146 MA's), (29, 45184), (34, 45142),

Gene: Hoot_74 Start: 42405, Stop: 42238, Start Num: 27

Candidate Starts for Hoot_74:

(Start: 27 @42405 has 146 MA's), (28, 42399), (29, 42390),

Gene: HortumSL17_79 Start: 45181, Stop: 45017, Start Num: 27

Candidate Starts for HortumSL17_79:

(Start: 27 @45181 has 146 MA's), (29, 45166), (32, 45148), (34, 45124),

Gene: Indra_82 Start: 44730, Stop: 44578, Start Num: 27

Candidate Starts for Indra_82:

(Start: 20 @44757 has 2 MA's), (Start: 27 @44730 has 146 MA's), (28, 44724), (29, 44715), (33, 44688),

Gene: IronMan_74 Start: 46915, Stop: 46739, Start Num: 27

Candidate Starts for IronMan_74:

(Start: 27 @46915 has 146 MA's), (41, 46762),

Gene: Isiphiwo_76 Start: 44572, Stop: 44405, Start Num: 27

Candidate Starts for Isiphiwo_76:

(Start: 27 @44572 has 146 MA's), (28, 44566), (29, 44557),

Gene: Iwokeuplikedis_78 Start: 46300, Stop: 46124, Start Num: 27

Candidate Starts for Iwokeuplikedis_78:

(Start: 27 @46300 has 146 MA's), (28, 46294),

Gene: Jaan_75 Start: 47076, Stop: 46900, Start Num: 27

Candidate Starts for Jaan_75:

(Start: 27 @47076 has 146 MA's), (41, 46923),

Gene: Jeeves_80 Start: 45143, Stop: 44967, Start Num: 27

Candidate Starts for Jeeves_80:

(1, 45359), (4, 45305), (5, 45287), (Start: 27 @45143 has 146 MA's), (29, 45128), (34, 45086),

Gene: Jerm_78 Start: 46242, Stop: 46078, Start Num: 27

Candidate Starts for Jerm_78:

(18, 46281), (Start: 27 @46242 has 146 MA's), (44, 46089),

Gene: Jiawan_75 Start: 45215, Stop: 45051, Start Num: 27

Candidate Starts for Jiawan_75:

(Start: 27 @45215 has 146 MA's), (29, 45200), (34, 45158),

Gene: Jordennis_77 Start: 44787, Stop: 44620, Start Num: 27

Candidate Starts for Jordennis_77:

(Start: 27 @44787 has 146 MA's), (28, 44781), (29, 44772),

Gene: JoshKayV_77 Start: 46282, Stop: 46115, Start Num: 27

Candidate Starts for JoshKayV_77:

(Start: 27 @46282 has 146 MA's), (28, 46276),

Gene: Kalpine_76 Start: 46163, Stop: 45996, Start Num: 27

Candidate Starts for Kalpine_76:

(Start: 27 @46163 has 146 MA's), (29, 46148), (34, 46106), (46, 46007), (49, 46001),

Gene: Kazan_80 Start: 44560, Stop: 44393, Start Num: 27

Candidate Starts for Kazan_80:

(Start: 27 @44560 has 146 MA's), (28, 44554), (29, 44545),

Gene: Keziacharles14_75 Start: 45797, Stop: 45627, Start Num: 27

Candidate Starts for Keziacharles14_75:

(Start: 27 @45797 has 146 MA's), (29, 45782), (34, 45740), (39, 45671),

Gene: KingCyrus_76 Start: 47256, Stop: 47092, Start Num: 27

Candidate Starts for KingCyrus_76:

(16, 47298), (18, 47295), (Start: 27 @47256 has 146 MA's), (29, 47241), (44, 47103),

Gene: Kinmap_86 Start: 46044, Stop: 45889, Start Num: 25

Candidate Starts for Kinmap_86:

(3, 46206), (23, 46047), (25, 46044),

Gene: Kipper29_79 Start: 44573, Stop: 44406, Start Num: 27

Candidate Starts for Kipper29_79:

(Start: 27 @44573 has 146 MA's), (28, 44567), (29, 44558),

Gene: Koko_80 Start: 45118, Stop: 44966, Start Num: 27

Candidate Starts for Koko_80:

(Start: 27 @45118 has 146 MA's), (28, 45112), (29, 45103), (33, 45076),

Gene: LadyBird_80 Start: 46485, Stop: 46318, Start Num: 27

Candidate Starts for LadyBird_80:

(Start: 27 @46485 has 146 MA's), (35, 46419), (45, 46329),

Gene: Landor_75 Start: 47003, Stop: 46827, Start Num: 27

Candidate Starts for Landor_75:

(Start: 27 @47003 has 146 MA's), (28, 46997), (41, 46850),

Gene: Larenn_73 Start: 45502, Stop: 45338, Start Num: 27

Candidate Starts for Larenn_73:

(14, 45556), (Start: 27 @45502 has 146 MA's), (44, 45349),

Gene: Leogania_75 Start: 46184, Stop: 46029, Start Num: 27

Candidate Starts for Leogania_75:

(13, 46241), (Start: 27 @46184 has 146 MA's), (28, 46178),

Gene: Leviathan_78 Start: 46308, Stop: 46144, Start Num: 27

Candidate Starts for Leviathan_78:

(18, 46347), (Start: 27 @46308 has 146 MA's), (44, 46155),

Gene: LilTurb_77 Start: 46122, Stop: 45958, Start Num: 27

Candidate Starts for LilTurb_77:

(18, 46161), (Start: 27 @46122 has 146 MA's), (44, 45969),

Gene: Lilbunny_78 Start: 44361, Stop: 44209, Start Num: 27

Candidate Starts for Lilbunny_78:

(Start: 20 @44388 has 2 MA's), (Start: 27 @44361 has 146 MA's), (28, 44355), (29, 44346), (33, 44319),

Gene: Lilleskat_75 Start: 45140, Stop: 44976, Start Num: 27

Candidate Starts for Lilleskat_75:

(Start: 27 @45140 has 146 MA's), (29, 45125), (32, 45107), (34, 45083),

Gene: Lokk_70 Start: 44303, Stop: 44139, Start Num: 27

Candidate Starts for Lokk_70:

(Start: 27 @44303 has 146 MA's), (28, 44297), (29, 44288), (39, 44177), (47, 44147),

Gene: LoneWolf_79 Start: 45428, Stop: 45264, Start Num: 27

Candidate Starts for LoneWolf_79:

(Start: 27 @45428 has 146 MA's), (29, 45413), (34, 45371),

Gene: Loser_78 Start: 46367, Stop: 46212, Start Num: 27

Candidate Starts for Loser_78:

(Start: 27 @46367 has 146 MA's), (29, 46352),

Gene: Luchador_79 Start: 46628, Stop: 46443, Start Num: 27

Candidate Starts for Luchador_79:

(Start: 27 @46628 has 146 MA's), (29, 46613), (34, 46571),

Gene: Malec_74 Start: 46069, Stop: 45905, Start Num: 27

Candidate Starts for Malec_74:

(14, 46123), (Start: 27 @46069 has 146 MA's), (44, 45916),

Gene: Maminiaina_78 Start: 45344, Stop: 45180, Start Num: 27

Candidate Starts for Maminiaina_78:

(Start: 27 @45344 has 146 MA's), (29, 45329), (34, 45287),

Gene: McFly_80 Start: 45189, Stop: 45022, Start Num: 27

Candidate Starts for McFly_80:

(Start: 27 @45189 has 146 MA's), (28, 45183), (29, 45174),

Gene: Miko_70 Start: 45080, Stop: 44916, Start Num: 27

Candidate Starts for Miko_70:

(Start: 27 @45080 has 146 MA's), (28, 45074), (29, 45065), (39, 44954), (47, 44924),

Gene: Myxus_78 Start: 45181, Stop: 45017, Start Num: 27

Candidate Starts for Myxus_78:

(Start: 27 @45181 has 146 MA's), (29, 45166), (32, 45148), (34, 45124),

Gene: Neeharika16_78 Start: 44656, Stop: 44489, Start Num: 27

Candidate Starts for Neeharika16_78:

(Start: 27 @44656 has 146 MA's), (28, 44650), (29, 44641),

Gene: Newrala_78 Start: 44995, Stop: 44828, Start Num: 27
Candidate Starts for Newrala_78:
(Start: 27 @44995 has 146 MA's), (28, 44989), (29, 44980),

Gene: NothingSpecial_72 Start: 45754, Stop: 45581, Start Num: 27
Candidate Starts for NothingSpecial_72:
(Start: 27 @45754 has 146 MA's), (28, 45748), (36, 45682),

Gene: Onglai_76 Start: 43387, Stop: 43223, Start Num: 27
Candidate Starts for Onglai_76:
(Start: 27 @43387 has 146 MA's), (29, 43372), (34, 43330),

Gene: PackMan_77 Start: 45056, Stop: 44892, Start Num: 27
Candidate Starts for PackMan_77:
(Start: 27 @45056 has 146 MA's), (29, 45041), (32, 45023), (34, 44999),

Gene: Phaded_72 Start: 46962, Stop: 46786, Start Num: 27
Candidate Starts for Phaded_72:
(Start: 27 @46962 has 146 MA's), (28, 46956), (41, 46809),

Gene: Phaeder_78 Start: 45056, Stop: 44892, Start Num: 27
Candidate Starts for Phaeder_78:
(Start: 27 @45056 has 146 MA's), (29, 45041), (32, 45023), (34, 44999),

Gene: Phonnegut_78 Start: 45128, Stop: 44964, Start Num: 27
Candidate Starts for Phonnegut_78:
(Start: 27 @45128 has 146 MA's), (29, 45113), (34, 45071),

Gene: Pioneer_78 Start: 45128, Stop: 44964, Start Num: 27
Candidate Starts for Pioneer_78:
(Start: 27 @45128 has 146 MA's), (29, 45113), (34, 45071),

Gene: Piro94_76 Start: 45778, Stop: 45623, Start Num: 27
Candidate Starts for Piro94_76:
(Start: 27 @45778 has 146 MA's), (28, 45772),

Gene: Pmask_78 Start: 45193, Stop: 45026, Start Num: 27
Candidate Starts for Pmask_78:
(Start: 27 @45193 has 146 MA's), (28, 45187), (29, 45178),

Gene: Power_76 Start: 46167, Stop: 46003, Start Num: 27
Candidate Starts for Power_76:
(17, 46206), (Start: 27 @46167 has 146 MA's), (28, 46161), (44, 46014),

Gene: Priamo_81 Start: 44855, Stop: 44688, Start Num: 27
Candidate Starts for Priamo_81:
(Start: 27 @44855 has 146 MA's), (28, 44849), (29, 44840),

Gene: Priya_76 Start: 44853, Stop: 44689, Start Num: 27
Candidate Starts for Priya_76:
(Start: 27 @44853 has 146 MA's), (29, 44838), (34, 44796),

Gene: Pukovnik_73 Start: 46577, Stop: 46401, Start Num: 27
Candidate Starts for Pukovnik_73:
(Start: 27 @46577 has 146 MA's), (41, 46424),

Gene: Qobbit_76 Start: 44815, Stop: 44651, Start Num: 27
Candidate Starts for Qobbit_76:
(Start: 27 @44815 has 146 MA's), (29, 44800), (34, 44758),

Gene: QueenB2_74 Start: 45451, Stop: 45287, Start Num: 27
Candidate Starts for QueenB2_74:
(17, 45490), (Start: 27 @45451 has 146 MA's), (44, 45298),

Gene: QueenBeesly_77 Start: 46124, Stop: 45960, Start Num: 27
Candidate Starts for QueenBeesly_77:
(17, 46163), (Start: 27 @46124 has 146 MA's), (28, 46118), (44, 45971),

Gene: Rachaly_72 Start: 45226, Stop: 45062, Start Num: 27
Candidate Starts for Rachaly_72:
(Start: 27 @45226 has 146 MA's), (28, 45220), (29, 45211), (39, 45100), (47, 45070),

Gene: Rahalelujah_78 Start: 44992, Stop: 44807, Start Num: 27
Candidate Starts for Rahalelujah_78:
(Start: 27 @44992 has 146 MA's), (28, 44986), (50, 44821),

Gene: RedRock_75 Start: 46134, Stop: 45979, Start Num: 27
Candidate Starts for RedRock_75:
(Start: 27 @46134 has 146 MA's), (29, 46119),

Gene: Refuge_74 Start: 46251, Stop: 46102, Start Num: 27
Candidate Starts for Refuge_74:
(Start: 27 @46251 has 146 MA's), (29, 46236), (39, 46125),

Gene: Retro23_77 Start: 45856, Stop: 45692, Start Num: 27
Candidate Starts for Retro23_77:
(17, 45895), (Start: 27 @45856 has 146 MA's), (28, 45850), (44, 45703),

Gene: Rifter_79 Start: 43891, Stop: 43739, Start Num: 27
Candidate Starts for Rifter_79:
(Start: 20 @43918 has 2 MA's), (Start: 27 @43891 has 146 MA's), (28, 43885), (29, 43876), (33, 43849),

Gene: Roksolana_79 Start: 44624, Stop: 44472, Start Num: 27
Candidate Starts for Roksolana_79:
(Start: 27 @44624 has 146 MA's), (28, 44618), (29, 44609), (33, 44582),

Gene: RyeScarlet_79 Start: 45103, Stop: 44939, Start Num: 27
Candidate Starts for RyeScarlet_79:
(Start: 27 @45103 has 146 MA's), (29, 45088), (34, 45046),

Gene: Sachima_74 Start: 45084, Stop: 44920, Start Num: 27
Candidate Starts for Sachima_74:
(Start: 27 @45084 has 146 MA's), (29, 45069), (32, 45051), (34, 45027),

Gene: Scherzo_77 Start: 45338, Stop: 45153, Start Num: 27
Candidate Starts for Scherzo_77:
(Start: 27 @45338 has 146 MA's), (29, 45323), (34, 45281), (48, 45176),

Gene: SemperFi_77 Start: 46012, Stop: 45848, Start Num: 27
Candidate Starts for SemperFi_77:
(17, 46051), (Start: 27 @46012 has 146 MA's), (28, 46006), (34, 45955), (44, 45859),

Gene: SheaKeira_72 Start: 44164, Stop: 44015, Start Num: 27
Candidate Starts for SheaKeira_72:
(12, 44221), (Start: 27 @44164 has 146 MA's), (28, 44158), (30, 44140), (32, 44131), (38, 44059),

Gene: Smeagan_79 Start: 46399, Stop: 46235, Start Num: 27
Candidate Starts for Smeagan_79:
(18, 46438), (Start: 27 @46399 has 146 MA's), (44, 46246),

Gene: SmellyB_79 Start: 44554, Stop: 44387, Start Num: 27
Candidate Starts for SmellyB_79:
(Start: 27 @44554 has 146 MA's), (28, 44548), (29, 44539),

Gene: SnapTap_76 Start: 45823, Stop: 45659, Start Num: 27
Candidate Starts for SnapTap_76:
(17, 45862), (Start: 27 @45823 has 146 MA's), (28, 45817), (44, 45670),

Gene: SororFago_78 Start: 46342, Stop: 46166, Start Num: 27
Candidate Starts for SororFago_78:
(Start: 27 @46342 has 146 MA's), (29, 46327),

Gene: Spouty_76 Start: 44852, Stop: 44688, Start Num: 27
Candidate Starts for Spouty_76:
(Start: 27 @44852 has 146 MA's), (29, 44837), (34, 44795),

Gene: Steamy_81 Start: 48438, Stop: 48295, Start Num: 27
Candidate Starts for Steamy_81:
(11, 48507), (19, 48468), (Start: 27 @48438 has 146 MA's), (35, 48384), (36, 48378),

Gene: Sunhee_78 Start: 44429, Stop: 44244, Start Num: 27
Candidate Starts for Sunhee_78:
(Start: 27 @44429 has 146 MA's), (29, 44414), (34, 44372), (37, 44336),

Gene: SuperAwesome_79 Start: 45232, Stop: 45065, Start Num: 27
Candidate Starts for SuperAwesome_79:
(Start: 27 @45232 has 146 MA's), (28, 45226), (29, 45217),

Gene: SuperCallie99_76 Start: 45076, Stop: 44909, Start Num: 27
Candidate Starts for SuperCallie99_76:
(Start: 27 @45076 has 146 MA's), (28, 45070), (29, 45061),

Gene: SweetiePie_76 Start: 45955, Stop: 45791, Start Num: 27
Candidate Starts for SweetiePie_76:
(17, 45994), (Start: 27 @45955 has 146 MA's), (28, 45949), (44, 45802),

Gene: TarsusIV_74 Start: 45855, Stop: 45700, Start Num: 27

Candidate Starts for TarsusIV_74:
(Start: 27 @45855 has 146 MA's), (39, 45729),

Gene: Temprado_80 Start: 44729, Stop: 44577, Start Num: 27
Candidate Starts for Temprado_80:
(Start: 20 @44756 has 2 MA's), (Start: 27 @44729 has 146 MA's), (28, 44723), (29, 44714), (33, 44687),

Gene: Toaka_78 Start: 45406, Stop: 45206, Start Num: 21
Candidate Starts for Toaka_78:
(Start: 21 @45406 has 1 MA's), (Start: 27 @45391 has 146 MA's), (29, 45376), (50, 45220),

Gene: ToneTone_76 Start: 44289, Stop: 44137, Start Num: 27
Candidate Starts for ToneTone_76:
(Start: 20 @44316 has 2 MA's), (Start: 27 @44289 has 146 MA's), (28, 44283), (29, 44274), (33, 44247),

Gene: Trixie_76 Start: 46566, Stop: 46399, Start Num: 27
Candidate Starts for Trixie_76:
(Start: 27 @46566 has 146 MA's), (34, 46509), (46, 46410), (49, 46404),

Gene: Trooper_76 Start: 45821, Stop: 45675, Start Num: 27
Candidate Starts for Trooper_76:
(Start: 27 @45821 has 146 MA's),

Gene: Tubs_78 Start: 45056, Stop: 44892, Start Num: 27
Candidate Starts for Tubs_78:
(Start: 27 @45056 has 146 MA's), (29, 45041), (32, 45023), (34, 44999),

Gene: Tucker_79 Start: 44492, Stop: 44340, Start Num: 27
Candidate Starts for Tucker_79:
(Start: 20 @44519 has 2 MA's), (Start: 27 @44492 has 146 MA's), (28, 44486), (29, 44477), (33, 44450),

Gene: Turbido_77 Start: 46120, Stop: 45956, Start Num: 27
Candidate Starts for Turbido_77:
(18, 46159), (Start: 27 @46120 has 146 MA's), (44, 45967),

Gene: Updawg_77 Start: 45675, Stop: 45511, Start Num: 27
Candidate Starts for Updawg_77:
(6, 45807), (7, 45777), (Start: 27 @45675 has 146 MA's), (44, 45522),

Gene: VA6_76 Start: 45850, Stop: 45683, Start Num: 27
Candidate Starts for VA6_76:
(Start: 27 @45850 has 146 MA's), (28, 45844), (42, 45703),

Gene: Vanisoa_75 Start: 45726, Stop: 45541, Start Num: 27
Candidate Starts for Vanisoa_75:
(Start: 27 @45726 has 146 MA's), (32, 45693), (50, 45555), (52, 45546),

Gene: VohminGhazi_79 Start: 44555, Stop: 44388, Start Num: 27
Candidate Starts for VohminGhazi_79:
(Start: 27 @44555 has 146 MA's), (28, 44549), (29, 44540),

Gene: WeiHuaDA_77 Start: 46612, Stop: 46448, Start Num: 27
Candidate Starts for WeiHuaDA_77:
(9, 46702), (22, 46621), (Start: 27 @46612 has 146 MA's), (34, 46555), (39, 46486),

Gene: WideWale_77 Start: 45675, Stop: 45511, Start Num: 27
Candidate Starts for WideWale_77:
(6, 45807), (7, 45777), (Start: 27 @45675 has 146 MA's), (44, 45522),

Gene: Wiks_78 Start: 44360, Stop: 44208, Start Num: 27
Candidate Starts for Wiks_78:
(Start: 20 @44387 has 2 MA's), (Start: 27 @44360 has 146 MA's), (28, 44354), (29, 44345), (33, 44318),

Gene: WunderPhul_79 Start: 44358, Stop: 44206, Start Num: 27
Candidate Starts for WunderPhul_79:
(Start: 20 @44385 has 2 MA's), (Start: 27 @44358 has 146 MA's), (28, 44352), (29, 44343), (33, 44316),

Gene: XianYue_72 Start: 45602, Stop: 45423, Start Num: 27
Candidate Starts for XianYue_72:
(Start: 27 @45602 has 146 MA's), (34, 45545), (42, 45455), (47, 45443), (51, 45428),

Gene: Yecey3_80 Start: 45152, Stop: 44967, Start Num: 27
Candidate Starts for Yecey3_80:
(10, 45221), (Start: 27 @45152 has 146 MA's), (38, 45047), (51, 44981),

Gene: Yokurt_78 Start: 44360, Stop: 44208, Start Num: 27
Candidate Starts for Yokurt_78:
(Start: 20 @44387 has 2 MA's), (Start: 27 @44360 has 146 MA's), (28, 44354), (29, 44345), (33, 44318),

Gene: Zaka_79 Start: 44360, Stop: 44208, Start Num: 27
Candidate Starts for Zaka_79:
(Start: 20 @44387 has 2 MA's), (Start: 27 @44360 has 146 MA's), (28, 44354), (29, 44345), (33, 44318),

Gene: Zimmer_75 Start: 46180, Stop: 46019, Start Num: 27
Candidate Starts for Zimmer_75:
(Start: 27 @46180 has 146 MA's), (34, 46123),

Gene: Zulu_80 Start: 44738, Stop: 44586, Start Num: 27
Candidate Starts for Zulu_80:
(Start: 20 @44765 has 2 MA's), (Start: 27 @44738 has 146 MA's), (28, 44732), (29, 44723), (33, 44696),