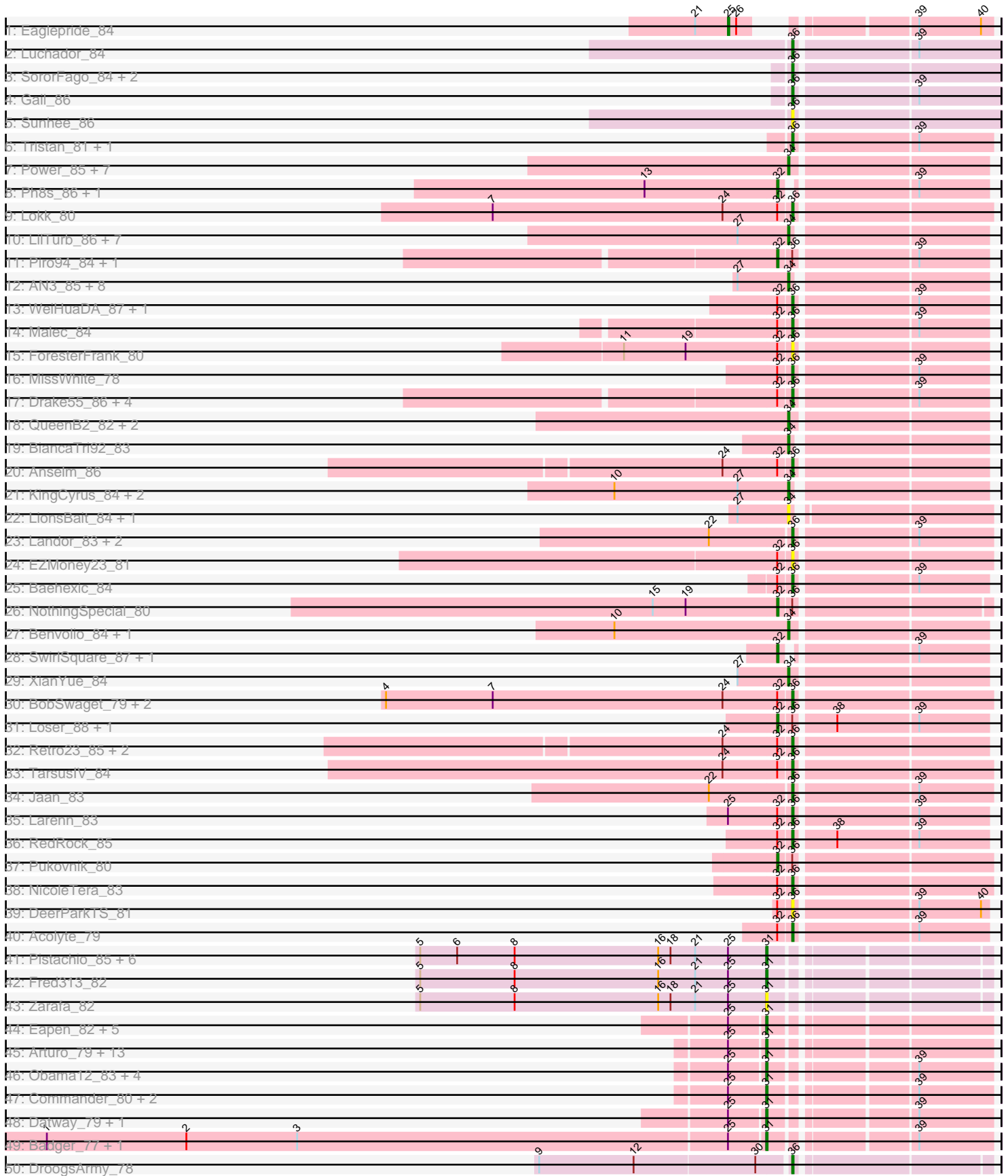
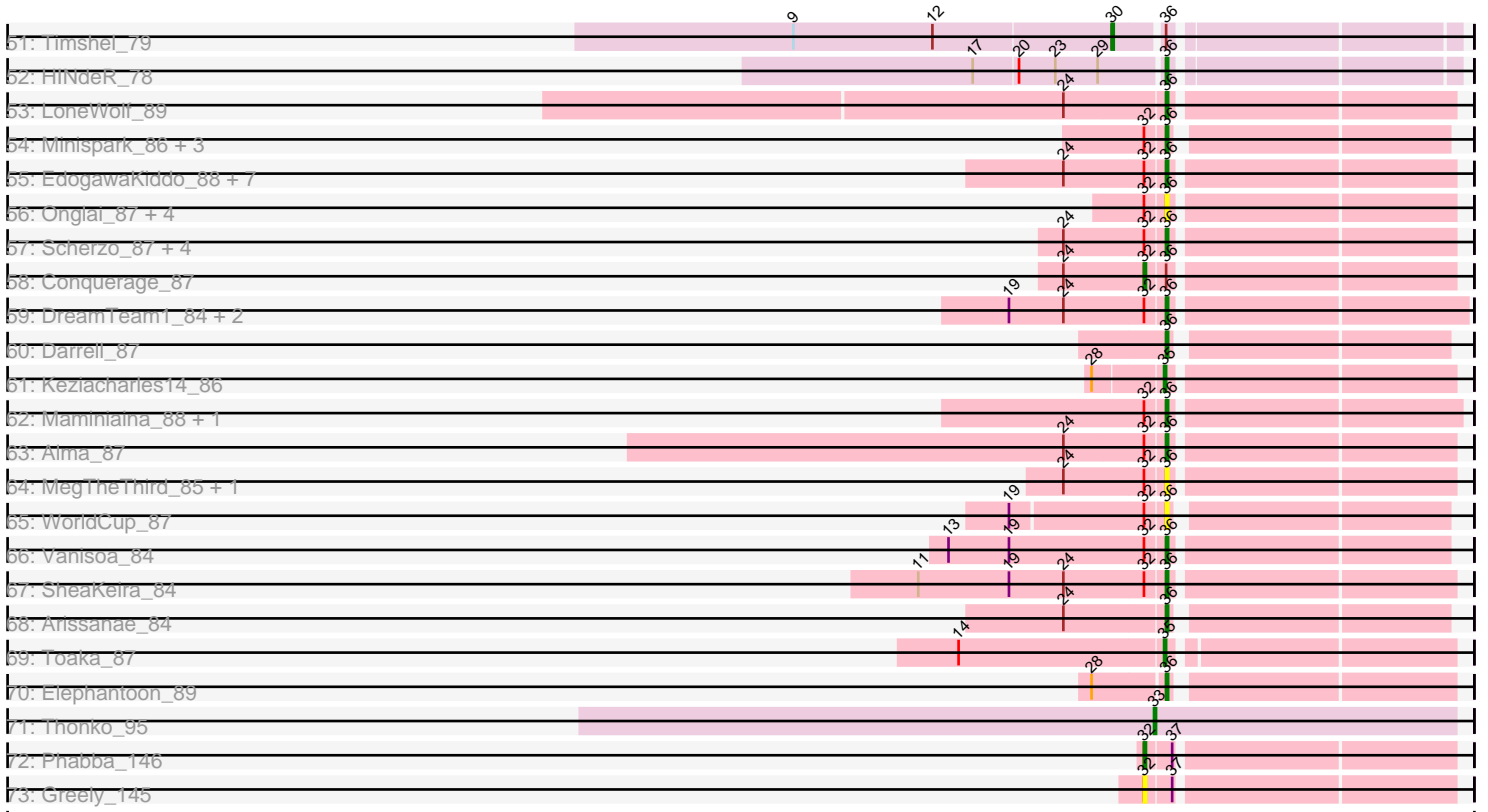


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 296284 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296284 has 173 members, 38 are drafts.

Phages represented in each track:

- Track 1 : Eaglepride_84
- Track 2 : Luchador_84
- Track 3 : SororFago_84, Iwokeuplikedis_89, Jeeves_86
- Track 4 : Gail_86
- Track 5 : Sunhee_86
- Track 6 : Tristan_81, Phaded_79
- Track 7 : Power_85, SnapTap_85, Georgie2_87, SweetiePie_85, FiringLine_85, Crucio_85, QueenBeesly_85, SemperFi_85
- Track 8 : Ph8s_86, Adzzy_86
- Track 9 : Lökk_80
- Track 10 : LilTurb_86, Jerm_87, Turbido_86, Dignity_87, Agape74_87, Smeagan_88, Leviathan_87, AbbyPaige_87
- Track 11 : Piro94_84, NaSiaTalie_86
- Track 12 : AN3_85, First_0086, CRB1_86, VA6_85, LadyBird_89, Deloris_87, BengiVuitton_87, 20ES_87, JoshKayV_87
- Track 13 : WeiHuaDA_87, Kalpine_87
- Track 14 : Malec_84
- Track 15 : ForesterFrank_80
- Track 16 : MissWhite_78
- Track 17 : Drake55_86, Updawg_86, Terrific_86, Gratitude_83, Centaur_85
- Track 18 : QueenB2_82, Fameo_83, Heffalump_82
- Track 19 : BiancaTri92_83
- Track 20 : Anselm_86
- Track 21 : KingCyrus_84, EvilGenius_85, ChipMunk_86
- Track 22 : LionsBait_84, HippoHollow_82
- Track 23 : Landor_83, Bactobuster_77, IronMan_82
- Track 24 : EZMoney23_81
- Track 25 : Baehexic_84
- Track 26 : NothingSpecial_80
- Track 27 : Benvolio_84, Echild_88
- Track 28 : SwirlSquare_87, Che12_87
- Track 29 : XianYue_84
- Track 30 : BobSwaget_79, Miko_80, Rachaly_82
- Track 31 : Loser_88, AnnaL29_87
- Track 32 : Retro23_85, DudeLittle_83, Dalmatian_85
- Track 33 : TarsusIV_84
- Track 34 : Jaan_83

- Track 35 : Larenn_83
- Track 36 : RedRock_85
- Track 37 : Pukovnik_80
- Track 38 : NicoleTera_83
- Track 39 : DeerParkTS_81
- Track 40 : Acolyte_79
- Track 41 : Pistachio_85, Giroux_88, SaturnRing_86, Clammy_86, Puppy_86, BlueBird_87, Bugatti_86
- Track 42 : Fred313_82
- Track 43 : Zarafa_82
- Track 44 : Eapen_82, KekoraPapaka_79, NorthStar_79, SheldonCooper_82, Relief_81, Skipitt_81
- Track 45 : Arturo_79, Huxley_71, Gadost_82, Nemo27_81, Kingmustik0402_82, MeeZee_81, NotAPhaseMom_81, Sultana_82, Cocoaberry_82, TygerBlood_82, Avle17_82, SteMason_78, Houdini22_81, Eagle_81
- Track 46 : Obama12_83, AvatarAhPeg_82, Deano_79, Stink_82, Rosa24_78
- Track 47 : Commander_80, Eros_82, RockieBear_79
- Track 48 : Datway_79, Cindaradix_77
- Track 49 : Badger_77, Katalie136_78
- Track 50 : DroogsArmy_78
- Track 51 : Timshel_79
- Track 52 : HINdeR_78
- Track 53 : LoneWolf_89
- Track 54 : Minispark_86, Bellris_86, Rahalelujah_88, CogOmlette_86
- Track 55 : EdogawaKiddo_88, Qobbit_87, ExplosioNervosa_87, Priya_87, Phaeder_89, Sachima_85, Lilleskat_86, Ayanochan_87
- Track 56 : Onglai_87, Jiawan_87, RyeScarlet_90, Horex_88, Hanray_87
- Track 57 : Scherzo_87, Phonnegut_89, Pioneer_89, Beemo_89, Ugenie5_76
- Track 58 : Conquerage_87
- Track 59 : DreamTeam1_84, Klodlith_85, Charm_84
- Track 60 : Darrell_87
- Track 61 : Keziacharles14_86
- Track 62 : Maminiaina_88, BogosyJay_88
- Track 63 : Alma_87
- Track 64 : MegTheThird_85, Celestialunch_84
- Track 65 : WorldCup_87
- Track 66 : Vanisoa_84
- Track 67 : SheaKeira_84
- Track 68 : Arissanae_84
- Track 69 : Toaka_87
- Track 70 : Elephantoon_89
- Track 71 : Thonko_95
- Track 72 : Phabba_146
- Track 73 : Greely_145

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

The start number called the most often in the published annotations is 36, it was called in 54 of the 135 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acolyte_79, Alma_87, Anselm_86, Arissanae_84, Ayanochan_87, Bactobuster_77, Baehexic_84, Beemo_89, Bellris_86, BobSwaget_79, BogosyJay_88, Celestiallunch_84, Centaur_85, Charm_84, CogOmlette_86, Dalmatian_85, Darrell_87, DeerParkTS_81, Drake55_86, DreamTeam1_84, DroogsArmy_78, DudeLittle_83, EZMoney23_81, EdogawaKiddo_88, Elephantoon_89, ExplosioNervosa_87, ForesterFrank_80, Gail_86, Gratitude_83, HINdeR_78, Hanray_87, Halex_88, IronMan_82, Iwokeuplieddis_89, Jaan_83, Jeeves_86, Jiawan_87, Kalpine_87, Klodlith_85, Landor_83, Larenn_83, Lilleskat_86, Lökk_80, LoneWolf_89, Luchador_84, Malec_84, Maminiaina_88, MegTheThird_85, Miko_80, Minispark_86, MissWhite_78, NicoleTera_83, Onglai_87, Phaded_79, Phaeder_89, Phonnegut_89, Pioneer_89, Priya_87, Qobbit_87, Rachaly_82, Rahalelujah_88, RedRock_85, Retro23_85, RyeScarlet_90, Sachima_85, Scherzo_87, SheaKeira_84, SororFago_84, Sunhee_86, TarsusIV_84, Terrific_86, Tristan_81, Ugenie5_76, Updawg_86, Vanisoa_84, WeiHuaDA_87, WorldCup_87,

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

- AnnaL29_87, Conquerage_87, Loser_88, NaSiaTalie_86, NothingSpecial_80, Piro94_84, Pukovnik_80, Timshel_79,

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

- 20ES_87, AN3_85, AbbyPaige_87, Adzzy_86, Agape74_87, Arturo_79, AvatarAhPeg_82, Avle17_82, Badger_77, BengiVuitton_87, Benvolio_84, BiancaTri92_83, BlueBird_87, Bugatti_86, CRB1_86, Che12_87, ChipMunk_86, Cindaradix_77, Clammy_86, Cocoaberry_82, Commander_80, Crucio_85, Datway_79, Deano_79, Deloris_87, Dignity_87, Eagle_81, Eaglepride_84, Eapen_82, Echild_88, Eros_82, EvilGenius_85, Fameo_83, FiringLine_85, First_0086, Fred313_82, Gadost_82, Georgie2_87, Giroux_88, Greely_145, Heffalump_82, HippoHollow_82, Houdini22_81, Huxley_71, Jerm_87, JoshKayV_87, Katalie136_78, KekoraPapaka_79, Keziacharles14_86, KingCyrus_84, Kingmustik0402_82, LadyBird_89, Leviathan_87, LilTurb_86, LionsBait_84, MeeZee_81, Nemo27_81, NorthStar_79, NotAPhaseMom_81, Obama12_83, Ph8s_86, Phabba_146, Pistachio_85, Power_85, Puppy_86, QueenB2_82, QueenBeesly_85, Relief_81, RockieBear_79, Rosa24_78, SaturnRing_86, SemperFi_85, SheldonCooper_82, Skipitt_81, Smeagan_88, SnapTap_85, SteMason_78, Stink_82, Sultana_82, SweetiePie_85, SwirlSquare_87, Thonko_95, Toaka_87, Turbido_86, TygerBlood_82, VA6_85, XianYue_84, Zarafa_82,

Summary by start number:

Start 25:

- Found in 43 of 173 (24.9%) of genes in pham
- Manual Annotations of this start: 1 of 135
- Called 2.3% of time when present
- Phage (with cluster) where this start called: Eaglepride_84 (A10),

Start 30:

- Found in 2 of 173 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 135
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Timshel_79 (A7),

Start 31:

- Found in 41 of 173 (23.7%) of genes in pham
- Manual Annotations of this start: 32 of 135
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arturo_79 (A4), AvatarAhPeg_82 (A4), Avle17_82 (A4), Badger_77 (A4), BlueBird_87 (A3), Bugatti_86 (A3), Cindaradix_77 (A4), Clammy_86 (A3), Cocoaberry_82 (A4), Commander_80 (A4), Datway_79 (A4), Deano_79 (A4), Eagle_81 (A4), Eapen_82 (A4), Eros_82 (A4), Fred313_82 (A3), Gadost_82 (A4), Giroux_88 (A3), Houdini22_81 (A4), Huxley_71 (A4), Katalie136_78 (A4), KekoraPapaka_79 (A4), Kingmustik0402_82 (A4), MeeZee_81 (A4), Nemo27_81 (A4), NorthStar_79 (A4), NotAPhaseMom_81 (A4), Obama12_83 (A4), Pistachio_85 (A3), Puppy_86 (A3), Relief_81 (A4), RockieBear_79 (A4), Rosa24_78 (A4), SaturnRing_86 (A3), SheldonCooper_82 (A4), Skipitt_81 (A4), SteMason_78 (A4), Stink_82 (A4), Sultana_82 (A4), TygerBlood_82 (A4), Zarafa_82 (A3),

Start 32:

- Found in 72 of 173 (41.6%) of genes in pham
- Manual Annotations of this start: 12 of 135
- Called 18.1% of time when present
- Phage (with cluster) where this start called: Adzzy_86 (A2), AnnaL29_87 (A2), Che12_87 (A2), Conquerage_87 (A9), Greely_145 (C2), Loser_88 (A2), NaSiaTalie_86 (A2), NothingSpecial_80 (A2), Ph8s_86 (A2), Phabba_146 (C2), Piro94_84 (A2), Pukovnik_80 (A2), SwirlSquare_87 (A2),

Start 33:

- Found in 1 of 173 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 135
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Thonko_95 (B8),

Start 34:

- Found in 37 of 173 (21.4%) of genes in pham
- Manual Annotations of this start: 32 of 135
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 20ES_87 (A2), AN3_85 (A2), AbbyPaige_87 (A2), Agape74_87 (A2), BengiVuitton_87 (A2), Benvolio_84 (A2), BiancaTri92_83 (A2), CRB1_86 (A2), ChipMunk_86 (A2), Crucio_85 (A2), Deloris_87 (A2), Dignity_87 (A2), Echild_88 (A2), EvilGenius_85 (A2), Fameo_83 (A2), FiringLine_85 (A2), First_0086 (A2), Georgie2_87 (A2), Heffalump_82 (A2), HippoHollow_82 (A2), Jerm_87 (A2), JoshKayV_87 (A2), KingCyrus_84 (A2), LadyBird_89 (A2), Leviathan_87 (A2), LilTurb_86 (A2), LionsBait_84 (A2), Power_85 (A2), QueenB2_82 (A2), QueenBeesly_85 (A2), SemperFi_85 (A2), Smeagan_88 (A2), SnapTap_85 (A2), SweetiePie_85 (A2), Turbido_86 (A2), VA6_85 (A2), XianYue_84 (A2),

Start 35:

- Found in 2 of 173 (1.2%) of genes in pham
- Manual Annotations of this start: 2 of 135
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Keziacharles14_86 (A9), Toaka_87 (A9),

Start 36:

- Found in 85 of 173 (49.1%) of genes in pham
- Manual Annotations of this start: 54 of 135

- Called 90.6% of time when present
- Phage (with cluster) where this start called: Acolyte_79 (A2), Alma_87 (A9), Anselm_86 (A2), Arissanae_84 (A9), Ayanochan_87 (A9), Bactobuster_77 (A2), Baehexic_84 (A2), Beemo_89 (A9), Bellris_86 (A9), BobSwaget_79 (A2), BogosyJay_88 (A9), Celestialunch_84 (A9), Centaur_85 (A2), Charm_84 (A9), CogOmlette_86 (A9), Dalmatian_85 (A2), Darrell_87 (A9), DeerParkTS_81 (A2), Drake55_86 (A2), DreamTeam1_84 (A9), DroogsArmy_78 (A7), DudeLittle_83 (A2), EZMoney23_81 (A2), EdogawaKiddo_88 (A9), Elephantoon_89 (A9), ExplosioNervosa_87 (A9), ForesterFrank_80 (A2), Gail_86 (A14), Gratitude_83 (A2), HINdeR_78 (A7), Hanray_87 (A9), Holey_88 (A9), IronMan_82 (A2), Iwokeuplikedis_89 (A2), Jaan_83 (A2), Jeeves_86 (A14), Jiawan_87 (A9), Kalpine_87 (A2), Klodlith_85 (A9), Landor_83 (A2), Larenn_83 (A2), Lilleskat_86 (A9), Lokk_80 (A2), LoneWolf_89 (A9), Luchador_84 (A14), Malec_84 (A2), Maminaiaina_88 (A9), MegTheThird_85 (A9), Miko_80 (A2), Minispark_86 (A9), MissWhite_78 (A2), NicoleTera_83 (A2), Onglai_87 (A9), Phaded_79 (A2), Phaeder_89 (A9), Phonnegut_89 (A9), Pioneer_89 (A9), Priya_87 (A9), Qobbit_87 (A9), Rachaly_82 (A2), Rahalelujah_88 (A9), RedRock_85 (A2), Retro23_85 (A2), RyeScarlet_90 (A9), Sachima_85 (A9), Scherzo_87 (A9), SheaKeira_84 (A9), SororFago_84 (A14), Sunhee_86 (A14), TarsusIV_84 (A2), Terrific_86 (A2), Tristan_81 (A2), Ugenie5_76 (A9), Updawg_86 (A2), Vanisoa_84 (A9), WeiHuaDA_87 (A2), WorldCup_87 (A9),

Summary by clusters:

There are 9 clusters represented in this pham: A14, A10, A3, A2, A4, A7, A9, C2, B8,

Info for manual annotations of cluster A10:

- Start number 25 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A14:

- Start number 36 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A2:

- Start number 32 was manually annotated 10 times for cluster A2.
- Start number 34 was manually annotated 32 times for cluster A2.
- Start number 36 was manually annotated 27 times for cluster A2.

Info for manual annotations of cluster A3:

- Start number 31 was manually annotated 5 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 31 was manually annotated 27 times for cluster A4.

Info for manual annotations of cluster A7:

- Start number 30 was manually annotated 1 time for cluster A7.
- Start number 36 was manually annotated 2 times for cluster A7.

Info for manual annotations of cluster A9:

- Start number 32 was manually annotated 1 time for cluster A9.
- Start number 35 was manually annotated 2 times for cluster A9.
- Start number 36 was manually annotated 21 times for cluster A9.

Info for manual annotations of cluster B8:

- Start number 33 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster C2:

•Start number 32 was manually annotated 1 time for cluster C2.

Gene Information:

Gene: 20ES_87 Start: 48610, Stop: 48476, Start Num: 34

Candidate Starts for 20ES_87:

(27, 48646), (Start: 34 @48610 has 32 MA's),

Gene: AN3_85 Start: 46868, Stop: 46734, Start Num: 34

Candidate Starts for AN3_85:

(27, 46904), (Start: 34 @46868 has 32 MA's),

Gene: AbbyPaige_87 Start: 48867, Stop: 48733, Start Num: 34

Candidate Starts for AbbyPaige_87:

(27, 48903), (Start: 34 @48867 has 32 MA's),

Gene: Acolyte_79 Start: 47568, Stop: 47434, Start Num: 36

Candidate Starts for Acolyte_79:

(Start: 32 @47577 has 12 MA's), (Start: 36 @47568 has 54 MA's), (39, 47484),

Gene: Adzzy_86 Start: 47386, Stop: 47249, Start Num: 32

Candidate Starts for Adzzy_86:

(13, 47482), (Start: 32 @47386 has 12 MA's), (39, 47299),

Gene: Agape74_87 Start: 48843, Stop: 48709, Start Num: 34

Candidate Starts for Agape74_87:

(27, 48879), (Start: 34 @48843 has 32 MA's),

Gene: Alma_87 Start: 48839, Stop: 48705, Start Num: 36

Candidate Starts for Alma_87:

(24, 48887), (Start: 32 @48848 has 12 MA's), (Start: 36 @48839 has 54 MA's),

Gene: AnnaL29_87 Start: 49009, Stop: 48866, Start Num: 32

Candidate Starts for AnnaL29_87:

(Start: 32 @49009 has 12 MA's), (Start: 36 @49000 has 54 MA's), (38, 48973), (39, 48916),

Gene: Anselm_86 Start: 48751, Stop: 48617, Start Num: 36

Candidate Starts for Anselm_86:

(24, 48799), (Start: 32 @48760 has 12 MA's), (Start: 36 @48751 has 54 MA's),

Gene: Arissanae_84 Start: 48711, Stop: 48583, Start Num: 36

Candidate Starts for Arissanae_84:

(24, 48759), (Start: 36 @48711 has 54 MA's),

Gene: Arturo_79 Start: 48170, Stop: 48024, Start Num: 31

Candidate Starts for Arturo_79:

(Start: 25 @48194 has 1 MA's), (Start: 31 @48170 has 32 MA's),

Gene: AvatarAhPeg_82 Start: 48295, Stop: 48149, Start Num: 31

Candidate Starts for AvatarAhPeg_82:

(Start: 25 @48319 has 1 MA's), (Start: 31 @48295 has 32 MA's), (39, 48202),

Gene: Avle17_82 Start: 48036, Stop: 47890, Start Num: 31

Candidate Starts for Avle17_82:

(Start: 25 @48060 has 1 MA's), (Start: 31 @48036 has 32 MA's),

Gene: Ayanochan_87 Start: 48623, Stop: 48489, Start Num: 36

Candidate Starts for Ayanochan_87:

(24, 48671), (Start: 32 @48632 has 12 MA's), (Start: 36 @48623 has 54 MA's),

Gene: Bactobuster_77 Start: 47335, Stop: 47198, Start Num: 36

Candidate Starts for Bactobuster_77:

(22, 47392), (Start: 36 @47335 has 54 MA's), (39, 47251),

Gene: Badger_77 Start: 47660, Stop: 47514, Start Num: 31

Candidate Starts for Badger_77:

(1, 48179), (2, 48077), (3, 47996), (Start: 25 @47684 has 1 MA's), (Start: 31 @47660 has 32 MA's), (39, 47567),

Gene: Baehexic_84 Start: 48234, Stop: 48100, Start Num: 36

Candidate Starts for Baehexic_84:

(Start: 32 @48243 has 12 MA's), (Start: 36 @48234 has 54 MA's), (39, 48150),

Gene: Beemo_89 Start: 48833, Stop: 48699, Start Num: 36

Candidate Starts for Beemo_89:

(24, 48881), (Start: 32 @48842 has 12 MA's), (Start: 36 @48833 has 54 MA's),

Gene: Bellris_86 Start: 48349, Stop: 48221, Start Num: 36

Candidate Starts for Bellris_86:

(Start: 32 @48358 has 12 MA's), (Start: 36 @48349 has 54 MA's),

Gene: BengiVuitton_87 Start: 48715, Stop: 48581, Start Num: 34

Candidate Starts for BengiVuitton_87:

(27, 48751), (Start: 34 @48715 has 32 MA's),

Gene: Benvolio_84 Start: 48484, Stop: 48347, Start Num: 34

Candidate Starts for Benvolio_84:

(10, 48610), (Start: 34 @48484 has 32 MA's),

Gene: BiancaTri92_83 Start: 48320, Stop: 48186, Start Num: 34

Candidate Starts for BiancaTri92_83:

(Start: 34 @48320 has 32 MA's),

Gene: BlueBird_87 Start: 47517, Stop: 47374, Start Num: 31

Candidate Starts for BlueBird_87:

(5, 47769), (6, 47742), (8, 47700), (16, 47595), (18, 47586), (21, 47568), (Start: 25 @47544 has 1 MA's), (Start: 31 @47517 has 32 MA's),

Gene: BobSwaget_79 Start: 46253, Stop: 46116, Start Num: 36

Candidate Starts for BobSwaget_79:

(4, 46547), (7, 46469), (24, 46301), (Start: 32 @46262 has 12 MA's), (Start: 36 @46253 has 54 MA's),

Gene: BogosyJay_88 Start: 48878, Stop: 48741, Start Num: 36
Candidate Starts for BogosyJay_88:
(Start: 32 @48887 has 12 MA's), (Start: 36 @48878 has 54 MA's),

Gene: Bugatti_86 Start: 47517, Stop: 47374, Start Num: 31
Candidate Starts for Bugatti_86:
(5, 47769), (6, 47742), (8, 47700), (16, 47595), (18, 47586), (21, 47568), (Start: 25 @47544 has 1 MA's), (Start: 31 @47517 has 32 MA's),

Gene: CRB1_86 Start: 48863, Stop: 48729, Start Num: 34
Candidate Starts for CRB1_86:
(27, 48899), (Start: 34 @48863 has 32 MA's),

Gene: Celestiallunch_84 Start: 48084, Stop: 47950, Start Num: 36
Candidate Starts for Celestiallunch_84:
(24, 48132), (Start: 32 @48093 has 12 MA's), (Start: 36 @48084 has 54 MA's),

Gene: Centaur_85 Start: 48112, Stop: 47978, Start Num: 36
Candidate Starts for Centaur_85:
(Start: 32 @48121 has 12 MA's), (Start: 36 @48112 has 54 MA's), (39, 48028),

Gene: Charm_84 Start: 48231, Stop: 48091, Start Num: 36
Candidate Starts for Charm_84:
(19, 48306), (24, 48279), (Start: 32 @48240 has 12 MA's), (Start: 36 @48231 has 54 MA's),

Gene: Che12_87 Start: 47465, Stop: 47328, Start Num: 32
Candidate Starts for Che12_87:
(Start: 32 @47465 has 12 MA's), (39, 47378),

Gene: ChipMunk_86 Start: 49770, Stop: 49636, Start Num: 34
Candidate Starts for ChipMunk_86:
(10, 49896), (27, 49806), (Start: 34 @49770 has 32 MA's),

Gene: Cindaradix_77 Start: 48255, Stop: 48109, Start Num: 31
Candidate Starts for Cindaradix_77:
(Start: 25 @48279 has 1 MA's), (Start: 31 @48255 has 32 MA's), (39, 48162),

Gene: Clammy_86 Start: 47517, Stop: 47374, Start Num: 31
Candidate Starts for Clammy_86:
(5, 47769), (6, 47742), (8, 47700), (16, 47595), (18, 47586), (21, 47568), (Start: 25 @47544 has 1 MA's), (Start: 31 @47517 has 32 MA's),

Gene: Cocoaberry_82 Start: 48043, Stop: 47897, Start Num: 31
Candidate Starts for Cocoaberry_82:
(Start: 25 @48067 has 1 MA's), (Start: 31 @48043 has 32 MA's),

Gene: CogOmlette_86 Start: 48346, Stop: 48218, Start Num: 36
Candidate Starts for CogOmlette_86:
(Start: 32 @48355 has 12 MA's), (Start: 36 @48346 has 54 MA's),

Gene: Commander_80 Start: 48043, Stop: 47897, Start Num: 31
Candidate Starts for Commander_80:
(Start: 25 @48070 has 1 MA's), (Start: 31 @48043 has 32 MA's), (39, 47950),

Gene: Conquerage_87 Start: 48617, Stop: 48474, Start Num: 32
Candidate Starts for Conquerage_87:
(24, 48656), (Start: 32 @48617 has 12 MA's), (Start: 36 @48608 has 54 MA's),

Gene: Crucio_85 Start: 48717, Stop: 48580, Start Num: 34
Candidate Starts for Crucio_85:
(Start: 34 @48717 has 32 MA's),

Gene: Dalmatian_85 Start: 48536, Stop: 48402, Start Num: 36
Candidate Starts for Dalmatian_85:
(24, 48584), (Start: 32 @48545 has 12 MA's), (Start: 36 @48536 has 54 MA's),

Gene: Darrell_87 Start: 48031, Stop: 47903, Start Num: 36
Candidate Starts for Darrell_87:
(Start: 36 @48031 has 54 MA's),

Gene: Datway_79 Start: 47853, Stop: 47707, Start Num: 31
Candidate Starts for Datway_79:
(Start: 25 @47877 has 1 MA's), (Start: 31 @47853 has 32 MA's), (39, 47760),

Gene: Deano_79 Start: 48050, Stop: 47904, Start Num: 31
Candidate Starts for Deano_79:
(Start: 25 @48074 has 1 MA's), (Start: 31 @48050 has 32 MA's), (39, 47957),

Gene: DeerParkTS_81 Start: 47209, Stop: 47075, Start Num: 36
Candidate Starts for DeerParkTS_81:
(Start: 32 @47218 has 12 MA's), (Start: 36 @47209 has 54 MA's), (39, 47125), (40, 47080),

Gene: Deloris_87 Start: 48408, Stop: 48274, Start Num: 34
Candidate Starts for Deloris_87:
(27, 48444), (Start: 34 @48408 has 32 MA's),

Gene: Dignity_87 Start: 48950, Stop: 48816, Start Num: 34
Candidate Starts for Dignity_87:
(27, 48986), (Start: 34 @48950 has 32 MA's),

Gene: Drake55_86 Start: 48363, Stop: 48229, Start Num: 36
Candidate Starts for Drake55_86:
(Start: 32 @48372 has 12 MA's), (Start: 36 @48363 has 54 MA's), (39, 48279),

Gene: DreamTeam1_84 Start: 48079, Stop: 47939, Start Num: 36
Candidate Starts for DreamTeam1_84:
(19, 48154), (24, 48127), (Start: 32 @48088 has 12 MA's), (Start: 36 @48079 has 54 MA's),

Gene: DroogsArmy_78 Start: 50033, Stop: 49902, Start Num: 36
Candidate Starts for DroogsArmy_78:
(9, 50210), (12, 50141), (Start: 30 @50054 has 1 MA's), (Start: 36 @50033 has 54 MA's),

Gene: DudeLittle_83 Start: 48254, Stop: 48120, Start Num: 36
Candidate Starts for DudeLittle_83:
(24, 48302), (Start: 32 @48263 has 12 MA's), (Start: 36 @48254 has 54 MA's),

Gene: EZMoney23_81 Start: 47816, Stop: 47679, Start Num: 36
Candidate Starts for EZMoney23_81:
(Start: 32 @47825 has 12 MA's), (Start: 36 @47816 has 54 MA's),

Gene: Eagle_81 Start: 48104, Stop: 47958, Start Num: 31
Candidate Starts for Eagle_81:
(Start: 25 @48128 has 1 MA's), (Start: 31 @48104 has 32 MA's),

Gene: Eaglepride_84 Start: 47732, Stop: 47583, Start Num: 25
Candidate Starts for Eaglepride_84:
(21, 47756), (Start: 25 @47732 has 1 MA's), (26, 47726), (39, 47636), (40, 47591),

Gene: Eapen_82 Start: 48037, Stop: 47891, Start Num: 31
Candidate Starts for Eapen_82:
(Start: 25 @48061 has 1 MA's), (Start: 31 @48037 has 32 MA's),

Gene: Echild_88 Start: 48508, Stop: 48371, Start Num: 34
Candidate Starts for Echild_88:
(10, 48634), (Start: 34 @48508 has 32 MA's),

Gene: EdogawaKiddo_88 Start: 48910, Stop: 48776, Start Num: 36
Candidate Starts for EdogawaKiddo_88:
(24, 48958), (Start: 32 @48919 has 12 MA's), (Start: 36 @48910 has 54 MA's),

Gene: Elephantoon_89 Start: 48757, Stop: 48626, Start Num: 36
Candidate Starts for Elephantoon_89:
(28, 48790), (Start: 36 @48757 has 54 MA's),

Gene: Eros_82 Start: 48047, Stop: 47901, Start Num: 31
Candidate Starts for Eros_82:
(Start: 25 @48074 has 1 MA's), (Start: 31 @48047 has 32 MA's), (39, 47954),

Gene: EvilGenius_85 Start: 49771, Stop: 49637, Start Num: 34
Candidate Starts for EvilGenius_85:
(10, 49897), (27, 49807), (Start: 34 @49771 has 32 MA's),

Gene: ExplosioNervosa_87 Start: 48669, Stop: 48535, Start Num: 36
Candidate Starts for ExplosioNervosa_87:
(24, 48717), (Start: 32 @48678 has 12 MA's), (Start: 36 @48669 has 54 MA's),

Gene: Fameo_83 Start: 48269, Stop: 48132, Start Num: 34
Candidate Starts for Fameo_83:
(Start: 34 @48269 has 32 MA's),

Gene: FiringLine_85 Start: 48657, Stop: 48520, Start Num: 34
Candidate Starts for FiringLine_85:
(Start: 34 @48657 has 32 MA's),

Gene: First_0086 Start: 48510, Stop: 48376, Start Num: 34
Candidate Starts for First_0086:
(27, 48546), (Start: 34 @48510 has 32 MA's),

Gene: ForesterFrank_80 Start: 48375, Stop: 48241, Start Num: 36

Candidate Starts for ForesterFrank_80:

(11, 48495), (19, 48450), (Start: 32 @48384 has 12 MA's), (Start: 36 @48375 has 54 MA's),

Gene: Fred313_82 Start: 47147, Stop: 47004, Start Num: 31

Candidate Starts for Fred313_82:

(5, 47399), (8, 47330), (16, 47225), (21, 47198), (Start: 25 @47174 has 1 MA's), (Start: 31 @47147 has 32 MA's),

Gene: Gadost_82 Start: 48043, Stop: 47897, Start Num: 31

Candidate Starts for Gadost_82:

(Start: 25 @48067 has 1 MA's), (Start: 31 @48043 has 32 MA's),

Gene: Gail_86 Start: 47979, Stop: 47836, Start Num: 36

Candidate Starts for Gail_86:

(Start: 36 @47979 has 54 MA's), (39, 47895),

Gene: Georgie2_87 Start: 48861, Stop: 48724, Start Num: 34

Candidate Starts for Georgie2_87:

(Start: 34 @48861 has 32 MA's),

Gene: Giroux_88 Start: 47516, Stop: 47373, Start Num: 31

Candidate Starts for Giroux_88:

(5, 47768), (6, 47741), (8, 47699), (16, 47594), (18, 47585), (21, 47567), (Start: 25 @47543 has 1 MA's), (Start: 31 @47516 has 32 MA's),

Gene: Gratitude_83 Start: 48341, Stop: 48207, Start Num: 36

Candidate Starts for Gratitude_83:

(Start: 32 @48350 has 12 MA's), (Start: 36 @48341 has 54 MA's), (39, 48257),

Gene: Greely_145 Start: 89424, Stop: 89567, Start Num: 32

Candidate Starts for Greely_145:

(Start: 32 @89424 has 12 MA's), (37, 89436),

Gene: HINdeR_78 Start: 49444, Stop: 49313, Start Num: 36

Candidate Starts for HINdeR_78:

(17, 49534), (20, 49513), (23, 49495), (29, 49474), (Start: 36 @49444 has 54 MA's),

Gene: Hanray_87 Start: 48889, Stop: 48755, Start Num: 36

Candidate Starts for Hanray_87:

(Start: 32 @48898 has 12 MA's), (Start: 36 @48889 has 54 MA's),

Gene: Heffalump_82 Start: 48737, Stop: 48600, Start Num: 34

Candidate Starts for Heffalump_82:

(Start: 34 @48737 has 32 MA's),

Gene: HippoHollow_82 Start: 49369, Stop: 49235, Start Num: 34

Candidate Starts for HippoHollow_82:

(27, 49405), (Start: 34 @49369 has 32 MA's),

Gene: Horex_88 Start: 48902, Stop: 48768, Start Num: 36

Candidate Starts for Horex_88:

(Start: 32 @48911 has 12 MA's), (Start: 36 @48902 has 54 MA's),

Gene: Houdini22_81 Start: 48043, Stop: 47897, Start Num: 31
Candidate Starts for Houdini22_81:
(Start: 25 @48067 has 1 MA's), (Start: 31 @48043 has 32 MA's),

Gene: Huxley_71 Start: 45935, Stop: 45789, Start Num: 31
Candidate Starts for Huxley_71:
(Start: 25 @45959 has 1 MA's), (Start: 31 @45935 has 32 MA's),

Gene: IronMan_82 Start: 48859, Stop: 48722, Start Num: 36
Candidate Starts for IronMan_82:
(22, 48916), (Start: 36 @48859 has 54 MA's), (39, 48775),

Gene: Iwokeuplikedis_89 Start: 48834, Stop: 48700, Start Num: 36
Candidate Starts for Iwokeuplikedis_89:
(Start: 36 @48834 has 54 MA's),

Gene: Jaan_83 Start: 48967, Stop: 48830, Start Num: 36
Candidate Starts for Jaan_83:
(22, 49024), (Start: 36 @48967 has 54 MA's), (39, 48883),

Gene: Jeeves_86 Start: 46696, Stop: 46556, Start Num: 36
Candidate Starts for Jeeves_86:
(Start: 36 @46696 has 54 MA's),

Gene: Jerm_87 Start: 48918, Stop: 48784, Start Num: 34
Candidate Starts for Jerm_87:
(27, 48954), (Start: 34 @48918 has 32 MA's),

Gene: Jiawan_87 Start: 48919, Stop: 48785, Start Num: 36
Candidate Starts for Jiawan_87:
(Start: 32 @48928 has 12 MA's), (Start: 36 @48919 has 54 MA's),

Gene: JoshKayV_87 Start: 49086, Stop: 48952, Start Num: 34
Candidate Starts for JoshKayV_87:
(27, 49122), (Start: 34 @49086 has 32 MA's),

Gene: Kalpine_87 Start: 49082, Stop: 48948, Start Num: 36
Candidate Starts for Kalpine_87:
(Start: 32 @49091 has 12 MA's), (Start: 36 @49082 has 54 MA's), (39, 48998),

Gene: Katalie136_78 Start: 47660, Stop: 47514, Start Num: 31
Candidate Starts for Katalie136_78:
(1, 48179), (2, 48077), (3, 47996), (Start: 25 @47684 has 1 MA's), (Start: 31 @47660 has 32 MA's),
(39, 47567),

Gene: KekoraPapaka_79 Start: 48042, Stop: 47896, Start Num: 31
Candidate Starts for KekoraPapaka_79:
(Start: 25 @48066 has 1 MA's), (Start: 31 @48042 has 32 MA's),

Gene: Keziacharles14_86 Start: 49418, Stop: 49284, Start Num: 35
Candidate Starts for Keziacharles14_86:
(28, 49448), (Start: 35 @49418 has 2 MA's),

Gene: KingCyrus_84 Start: 49784, Stop: 49650, Start Num: 34
Candidate Starts for KingCyrus_84:
(10, 49910), (27, 49820), (Start: 34 @49784 has 32 MA's),

Gene: Kingmustik0402_82 Start: 48031, Stop: 47885, Start Num: 31
Candidate Starts for Kingmustik0402_82:
(Start: 25 @48055 has 1 MA's), (Start: 31 @48031 has 32 MA's),

Gene: Klodlith_85 Start: 48301, Stop: 48161, Start Num: 36
Candidate Starts for Klodlith_85:
(19, 48376), (24, 48349), (Start: 32 @48310 has 12 MA's), (Start: 36 @48301 has 54 MA's),

Gene: LadyBird_89 Start: 49008, Stop: 48874, Start Num: 34
Candidate Starts for LadyBird_89:
(27, 49044), (Start: 34 @49008 has 32 MA's),

Gene: Landor_83 Start: 48892, Stop: 48755, Start Num: 36
Candidate Starts for Landor_83:
(22, 48949), (Start: 36 @48892 has 54 MA's), (39, 48808),

Gene: Larenn_83 Start: 48362, Stop: 48228, Start Num: 36
Candidate Starts for Larenn_83:
(Start: 25 @48407 has 1 MA's), (Start: 32 @48371 has 12 MA's), (Start: 36 @48362 has 54 MA's), (39, 48278),

Gene: Leviathan_87 Start: 48999, Stop: 48865, Start Num: 34
Candidate Starts for Leviathan_87:
(27, 49035), (Start: 34 @48999 has 32 MA's),

Gene: LilTurb_86 Start: 48795, Stop: 48661, Start Num: 34
Candidate Starts for LilTurb_86:
(27, 48831), (Start: 34 @48795 has 32 MA's),

Gene: Lilleskat_86 Start: 48899, Stop: 48765, Start Num: 36
Candidate Starts for Lilleskat_86:
(24, 48947), (Start: 32 @48908 has 12 MA's), (Start: 36 @48899 has 54 MA's),

Gene: LionsBait_84 Start: 49309, Stop: 49175, Start Num: 34
Candidate Starts for LionsBait_84:
(27, 49345), (Start: 34 @49309 has 32 MA's),

Gene: Lokk_80 Start: 46874, Stop: 46737, Start Num: 36
Candidate Starts for Lokk_80:
(7, 47090), (24, 46922), (Start: 32 @46883 has 12 MA's), (Start: 36 @46874 has 54 MA's),

Gene: LoneWolf_89 Start: 48940, Stop: 48806, Start Num: 36
Candidate Starts for LoneWolf_89:
(24, 48988), (Start: 36 @48940 has 54 MA's),

Gene: Loser_88 Start: 49259, Stop: 49116, Start Num: 32
Candidate Starts for Loser_88:
(Start: 32 @49259 has 12 MA's), (Start: 36 @49250 has 54 MA's), (38, 49223), (39, 49166),

Gene: Luchador_84 Start: 47960, Stop: 47817, Start Num: 36

Candidate Starts for Luchador_84:

(Start: 36 @47960 has 54 MA's), (39, 47876),

Gene: Malec_84 Start: 48932, Stop: 48798, Start Num: 36

Candidate Starts for Malec_84:

(Start: 32 @48941 has 12 MA's), (Start: 36 @48932 has 54 MA's), (39, 48848),

Gene: Maminiaina_88 Start: 48860, Stop: 48723, Start Num: 36

Candidate Starts for Maminiaina_88:

(Start: 32 @48869 has 12 MA's), (Start: 36 @48860 has 54 MA's),

Gene: MeeZee_81 Start: 48036, Stop: 47890, Start Num: 31

Candidate Starts for MeeZee_81:

(Start: 25 @48060 has 1 MA's), (Start: 31 @48036 has 32 MA's),

Gene: MegTheThird_85 Start: 48302, Stop: 48168, Start Num: 36

Candidate Starts for MegTheThird_85:

(24, 48350), (Start: 32 @48311 has 12 MA's), (Start: 36 @48302 has 54 MA's),

Gene: Miko_80 Start: 47639, Stop: 47502, Start Num: 36

Candidate Starts for Miko_80:

(4, 47933), (7, 47855), (24, 47687), (Start: 32 @47648 has 12 MA's), (Start: 36 @47639 has 54 MA's),

Gene: Minispark_86 Start: 48343, Stop: 48215, Start Num: 36

Candidate Starts for Minispark_86:

(Start: 32 @48352 has 12 MA's), (Start: 36 @48343 has 54 MA's),

Gene: MissWhite_78 Start: 44927, Stop: 44793, Start Num: 36

Candidate Starts for MissWhite_78:

(Start: 32 @44936 has 12 MA's), (Start: 36 @44927 has 54 MA's), (39, 44843),

Gene: NaSiaTalie_86 Start: 48355, Stop: 48212, Start Num: 32

Candidate Starts for NaSiaTalie_86:

(Start: 32 @48355 has 12 MA's), (Start: 36 @48346 has 54 MA's), (39, 48262),

Gene: Nemo27_81 Start: 48038, Stop: 47892, Start Num: 31

Candidate Starts for Nemo27_81:

(Start: 25 @48062 has 1 MA's), (Start: 31 @48038 has 32 MA's),

Gene: NicoleTera_83 Start: 48277, Stop: 48140, Start Num: 36

Candidate Starts for NicoleTera_83:

(Start: 32 @48286 has 12 MA's), (Start: 36 @48277 has 54 MA's),

Gene: NorthStar_79 Start: 48042, Stop: 47896, Start Num: 31

Candidate Starts for NorthStar_79:

(Start: 25 @48066 has 1 MA's), (Start: 31 @48042 has 32 MA's),

Gene: NotAPhaseMom_81 Start: 48043, Stop: 47897, Start Num: 31

Candidate Starts for NotAPhaseMom_81:

(Start: 25 @48067 has 1 MA's), (Start: 31 @48043 has 32 MA's),

Gene: NothingSpecial_80 Start: 48222, Stop: 48079, Start Num: 32

Candidate Starts for NothingSpecial_80:
(15, 48312), (19, 48288), (Start: 32 @48222 has 12 MA's), (Start: 36 @48213 has 54 MA's),

Gene: Obama12_83 Start: 48466, Stop: 48320, Start Num: 31
Candidate Starts for Obama12_83:
(Start: 25 @48490 has 1 MA's), (Start: 31 @48466 has 32 MA's), (39, 48373),

Gene: Onglai_87 Start: 47091, Stop: 46957, Start Num: 36
Candidate Starts for Onglai_87:
(Start: 32 @47100 has 12 MA's), (Start: 36 @47091 has 54 MA's),

Gene: Ph8s_86 Start: 47599, Stop: 47462, Start Num: 32
Candidate Starts for Ph8s_86:
(13, 47695), (Start: 32 @47599 has 12 MA's), (39, 47512),

Gene: Phabba_146 Start: 88539, Stop: 88682, Start Num: 32
Candidate Starts for Phabba_146:
(Start: 32 @88539 has 12 MA's), (37, 88551),

Gene: Phaded_79 Start: 48851, Stop: 48714, Start Num: 36
Candidate Starts for Phaded_79:
(Start: 36 @48851 has 54 MA's), (39, 48767),

Gene: Phaeder_89 Start: 48820, Stop: 48686, Start Num: 36
Candidate Starts for Phaeder_89:
(24, 48868), (Start: 32 @48829 has 12 MA's), (Start: 36 @48820 has 54 MA's),

Gene: Phonnegut_89 Start: 48832, Stop: 48698, Start Num: 36
Candidate Starts for Phonnegut_89:
(24, 48880), (Start: 32 @48841 has 12 MA's), (Start: 36 @48832 has 54 MA's),

Gene: Pioneer_89 Start: 48832, Stop: 48698, Start Num: 36
Candidate Starts for Pioneer_89:
(24, 48880), (Start: 32 @48841 has 12 MA's), (Start: 36 @48832 has 54 MA's),

Gene: Piro94_84 Start: 48303, Stop: 48160, Start Num: 32
Candidate Starts for Piro94_84:
(Start: 32 @48303 has 12 MA's), (Start: 36 @48294 has 54 MA's), (39, 48210),

Gene: Pistachio_85 Start: 47064, Stop: 46921, Start Num: 31
Candidate Starts for Pistachio_85:
(5, 47316), (6, 47289), (8, 47247), (16, 47142), (18, 47133), (21, 47115), (Start: 25 @47091 has 1 MA's), (Start: 31 @47064 has 32 MA's),

Gene: Power_85 Start: 48860, Stop: 48723, Start Num: 34
Candidate Starts for Power_85:
(Start: 34 @48860 has 32 MA's),

Gene: Priya_87 Start: 48604, Stop: 48470, Start Num: 36
Candidate Starts for Priya_87:
(24, 48652), (Start: 32 @48613 has 12 MA's), (Start: 36 @48604 has 54 MA's),

Gene: Pukovnik_80 Start: 48328, Stop: 48182, Start Num: 32

Candidate Starts for Pukovnik_80:
(Start: 32 @48328 has 12 MA's), (Start: 36 @48319 has 54 MA's),

Gene: Puppy_86 Start: 47134, Stop: 46991, Start Num: 31
Candidate Starts for Puppy_86:
(5, 47386), (6, 47359), (8, 47317), (16, 47212), (18, 47203), (21, 47185), (Start: 25 @47161 has 1 MA's), (Start: 31 @47134 has 32 MA's),

Gene: Qobbit_87 Start: 48566, Stop: 48432, Start Num: 36
Candidate Starts for Qobbit_87:
(24, 48614), (Start: 32 @48575 has 12 MA's), (Start: 36 @48566 has 54 MA's),

Gene: QueenB2_82 Start: 47950, Stop: 47813, Start Num: 34
Candidate Starts for QueenB2_82:
(Start: 34 @47950 has 32 MA's),

Gene: QueenBeesly_85 Start: 48657, Stop: 48520, Start Num: 34
Candidate Starts for QueenBeesly_85:
(Start: 34 @48657 has 32 MA's),

Gene: Rachaly_82 Start: 47782, Stop: 47645, Start Num: 36
Candidate Starts for Rachaly_82:
(4, 48076), (7, 47998), (24, 47830), (Start: 32 @47791 has 12 MA's), (Start: 36 @47782 has 54 MA's),

Gene: Rahalelujah_88 Start: 48358, Stop: 48230, Start Num: 36
Candidate Starts for Rahalelujah_88:
(Start: 32 @48367 has 12 MA's), (Start: 36 @48358 has 54 MA's),

Gene: RedRock_85 Start: 48903, Stop: 48769, Start Num: 36
Candidate Starts for RedRock_85:
(Start: 32 @48912 has 12 MA's), (Start: 36 @48903 has 54 MA's), (38, 48876), (39, 48819),

Gene: Relief_81 Start: 48039, Stop: 47893, Start Num: 31
Candidate Starts for Relief_81:
(Start: 25 @48063 has 1 MA's), (Start: 31 @48039 has 32 MA's),

Gene: Retro23_85 Start: 48378, Stop: 48244, Start Num: 36
Candidate Starts for Retro23_85:
(24, 48426), (Start: 32 @48387 has 12 MA's), (Start: 36 @48378 has 54 MA's),

Gene: RockieBear_79 Start: 48044, Stop: 47898, Start Num: 31
Candidate Starts for RockieBear_79:
(Start: 25 @48071 has 1 MA's), (Start: 31 @48044 has 32 MA's), (39, 47951),

Gene: Rosa24_78 Start: 48070, Stop: 47924, Start Num: 31
Candidate Starts for Rosa24_78:
(Start: 25 @48094 has 1 MA's), (Start: 31 @48070 has 32 MA's), (39, 47977),

Gene: RyeScarlet_90 Start: 48809, Stop: 48675, Start Num: 36
Candidate Starts for RyeScarlet_90:
(Start: 32 @48818 has 12 MA's), (Start: 36 @48809 has 54 MA's),

Gene: Sachima_85 Start: 48847, Stop: 48713, Start Num: 36

Candidate Starts for Sachima_85:
(24, 48895), (Start: 32 @48856 has 12 MA's), (Start: 36 @48847 has 54 MA's),

Gene: SaturnRing_86 Start: 47517, Stop: 47374, Start Num: 31
Candidate Starts for SaturnRing_86:
(5, 47769), (6, 47742), (8, 47700), (16, 47595), (18, 47586), (21, 47568), (Start: 25 @47544 has 1 MA's), (Start: 31 @47517 has 32 MA's),

Gene: Scherzo_87 Start: 48864, Stop: 48730, Start Num: 36
Candidate Starts for Scherzo_87:
(24, 48912), (Start: 32 @48873 has 12 MA's), (Start: 36 @48864 has 54 MA's),

Gene: SemperFi_85 Start: 48545, Stop: 48408, Start Num: 34
Candidate Starts for SemperFi_85:
(Start: 34 @48545 has 32 MA's),

Gene: SheaKeira_84 Start: 48104, Stop: 47970, Start Num: 36
Candidate Starts for SheaKeira_84:
(11, 48224), (19, 48179), (24, 48152), (Start: 32 @48113 has 12 MA's), (Start: 36 @48104 has 54 MA's),

Gene: SheldonCooper_82 Start: 48480, Stop: 48334, Start Num: 31
Candidate Starts for SheldonCooper_82:
(Start: 25 @48504 has 1 MA's), (Start: 31 @48480 has 32 MA's),

Gene: Skipitt_81 Start: 48036, Stop: 47890, Start Num: 31
Candidate Starts for Skipitt_81:
(Start: 25 @48060 has 1 MA's), (Start: 31 @48036 has 32 MA's),

Gene: Smeagan_88 Start: 49090, Stop: 48956, Start Num: 34
Candidate Starts for Smeagan_88:
(27, 49126), (Start: 34 @49090 has 32 MA's),

Gene: SnapTap_85 Start: 48516, Stop: 48379, Start Num: 34
Candidate Starts for SnapTap_85:
(Start: 34 @48516 has 32 MA's),

Gene: SororFago_84 Start: 47898, Stop: 47755, Start Num: 36
Candidate Starts for SororFago_84:
(Start: 36 @47898 has 54 MA's),

Gene: SteMason_78 Start: 48039, Stop: 47893, Start Num: 31
Candidate Starts for SteMason_78:
(Start: 25 @48063 has 1 MA's), (Start: 31 @48039 has 32 MA's),

Gene: Stink_82 Start: 48266, Stop: 48120, Start Num: 31
Candidate Starts for Stink_82:
(Start: 25 @48290 has 1 MA's), (Start: 31 @48266 has 32 MA's), (39, 48173),

Gene: Sultana_82 Start: 48039, Stop: 47893, Start Num: 31
Candidate Starts for Sultana_82:
(Start: 25 @48063 has 1 MA's), (Start: 31 @48039 has 32 MA's),

Gene: Sunhee_86 Start: 46322, Stop: 46179, Start Num: 36
Candidate Starts for Sunhee_86:
(Start: 36 @46322 has 54 MA's),

Gene: SweetiePie_85 Start: 48649, Stop: 48512, Start Num: 34
Candidate Starts for SweetiePie_85:
(Start: 34 @48649 has 32 MA's),

Gene: SwirlSquare_87 Start: 47074, Stop: 46937, Start Num: 32
Candidate Starts for SwirlSquare_87:
(Start: 32 @47074 has 12 MA's), (39, 46987),

Gene: TarsusIV_84 Start: 48539, Stop: 48402, Start Num: 36
Candidate Starts for TarsusIV_84:
(24, 48587), (Start: 32 @48548 has 12 MA's), (Start: 36 @48539 has 54 MA's),

Gene: Terrific_86 Start: 48127, Stop: 47993, Start Num: 36
Candidate Starts for Terrific_86:
(Start: 32 @48136 has 12 MA's), (Start: 36 @48127 has 54 MA's), (39, 48043),

Gene: Thonko_95 Start: 65603, Stop: 65454, Start Num: 33
Candidate Starts for Thonko_95:
(Start: 33 @65603 has 1 MA's),

Gene: Timshel_79 Start: 49897, Stop: 49745, Start Num: 30
Candidate Starts for Timshel_79:
(9, 50053), (12, 49984), (Start: 30 @49897 has 1 MA's), (Start: 36 @49876 has 54 MA's),

Gene: Toaka_87 Start: 48704, Stop: 48573, Start Num: 35
Candidate Starts for Toaka_87:
(14, 48803), (Start: 35 @48704 has 2 MA's),

Gene: Tristan_81 Start: 48683, Stop: 48546, Start Num: 36
Candidate Starts for Tristan_81:
(Start: 36 @48683 has 54 MA's), (39, 48599),

Gene: Turbido_86 Start: 48811, Stop: 48677, Start Num: 34
Candidate Starts for Turbido_86:
(27, 48847), (Start: 34 @48811 has 32 MA's),

Gene: TygerBlood_82 Start: 48042, Stop: 47896, Start Num: 31
Candidate Starts for TygerBlood_82:
(Start: 25 @48066 has 1 MA's), (Start: 31 @48042 has 32 MA's),

Gene: Ugenie5_76 Start: 46308, Stop: 46174, Start Num: 36
Candidate Starts for Ugenie5_76:
(24, 46356), (Start: 32 @46317 has 12 MA's), (Start: 36 @46308 has 54 MA's),

Gene: Updawg_86 Start: 48341, Stop: 48207, Start Num: 36
Candidate Starts for Updawg_86:
(Start: 32 @48350 has 12 MA's), (Start: 36 @48341 has 54 MA's), (39, 48257),

Gene: VA6_85 Start: 48439, Stop: 48305, Start Num: 34

Candidate Starts for VA6_85:
(27, 48475), (Start: 34 @48439 has 32 MA's),

Gene: Vanisoa_84 Start: 49036, Stop: 48905, Start Num: 36
Candidate Starts for Vanisoa_84:
(13, 49141), (19, 49111), (Start: 32 @49045 has 12 MA's), (Start: 36 @49036 has 54 MA's),

Gene: WeiHuaDA_87 Start: 49366, Stop: 49232, Start Num: 36
Candidate Starts for WeiHuaDA_87:
(Start: 32 @49375 has 12 MA's), (Start: 36 @49366 has 54 MA's), (39, 49282),

Gene: WorldCup_87 Start: 48497, Stop: 48369, Start Num: 36
Candidate Starts for WorldCup_87:
(19, 48569), (Start: 32 @48506 has 12 MA's), (Start: 36 @48497 has 54 MA's),

Gene: XianYue_84 Start: 48596, Stop: 48459, Start Num: 34
Candidate Starts for XianYue_84:
(27, 48632), (Start: 34 @48596 has 32 MA's),

Gene: Zarafa_82 Start: 47363, Stop: 47220, Start Num: 31
Candidate Starts for Zarafa_82:
(5, 47615), (8, 47546), (16, 47441), (18, 47432), (21, 47414), (Start: 25 @47390 has 1 MA's), (Start: 31 @47363 has 32 MA's),