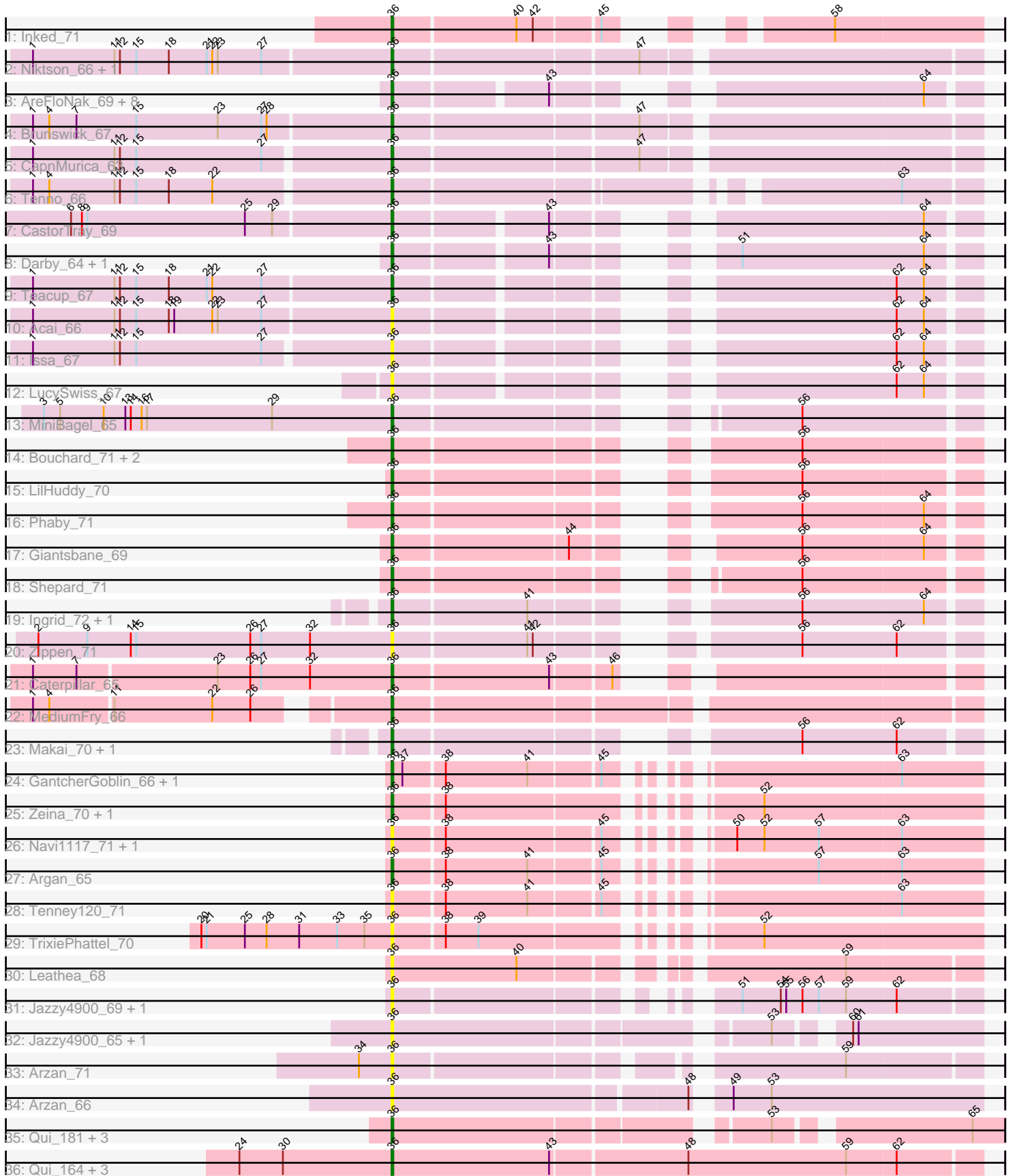


Pham 216177



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 216177 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216177 has 61 members, 24 are drafts.

Phages represented in each track:

- Track 1 : Inked_71
- Track 2 : Niktson_66, ElephantMan_66
- Track 3 : AreFloNak_69, ScienceWizSam_67, Gordon_63, Breylor17_65, Tatanka_61, DevitoJr_65, Synopsis_64, Nivinsha_69, Nightmare_67
- Track 4 : Brunswick_67
- Track 5 : CapnMurica_63
- Track 6 : Tenno_66
- Track 7 : CastorTray_69
- Track 8 : Darby_64, Trustiboi_65
- Track 9 : Teacup_67
- Track 10 : Acai_66
- Track 11 : Issa_67
- Track 12 : LucySwiss_67
- Track 13 : MiniBagel_65
- Track 14 : Bouchard_71, Tokki_75, Chlochlo_68
- Track 15 : LilHuddy_70
- Track 16 : Phaby_71
- Track 17 : Giantsbane_69
- Track 18 : Shepard_71
- Track 19 : Ingrid_72, Loretta_69
- Track 20 : Zippen_71
- Track 21 : Caterpillar_65
- Track 22 : MediumFry_66
- Track 23 : Makai_70, Truckee_68
- Track 24 : GantcherGoblin_66, Uzumaki_65
- Track 25 : Zeina_70, Phaila_70
- Track 26 : Navi1117_71, KevinMinion_67
- Track 27 : Argan_65
- Track 28 : Tenney120_71
- Track 29 : TrixiePhattel_70
- Track 30 : Leathea_68
- Track 31 : Jazzy4900_69, Sunny4976_68
- Track 32 : Jazzy4900_65, Sunny4976_64
- Track 33 : Arzan_71
- Track 34 : Arzan_66
- Track 35 : Qui_181, Elver_177, Gandionco_179, Paella_181
- Track 36 : Qui_164, Elver_161, Gandionco_160, Paella_164

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 37 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acai_66, AreFloNak_69, Argan_65, Arzan_66, Arzan_71, Bouchard_71, Breylor17_65, Brunswick_67, CapnMurica_63, CastorTray_69, Caterpillar_65, Chlochlo_68, Darby_64, DevitoJr_65, ElephantMan_66, Elver_161, Elver_177, Gandionco_160, Gandionco_179, GantcherGoblin_66, Giantsbane_69, Gordon_63, Ingrid_72, Inked_71, Issa_67, Jazzy4900_65, Jazzy4900_69, KevinMinion_67, Leathea_68, LilHuddy_70, Loretta_69, LucySwiss_67, Makai_70, MediumFry_66, MiniBagel_65, Navi1117_71, Nightmare_67, Niktson_66, Nivinsha_69, Paella_164, Paella_181, Phaby_71, Phaila_70, Qui_164, Qui_181, ScienceWizSam_67, Shepard_71, Sunny4976_64, Sunny4976_68, Synopsis_64, Tatanka_61, Teacup_67, Tenney120_71, Tenno_66, Tokki_75, TrixiePhattel_70, Truckee_68, Trustiboi_65, Uzumaki_65, Zeina_70, Zippen_71,

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

-

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

-

Summary by start number:

Start 36:

- Found in 61 of 61 (100.0%) of genes in pham
- Manual Annotations of this start: 37 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acai_66 (AU1), AreFloNak_69 (AU1), Argan_65 (AU6), Arzan_66 (FI), Arzan_71 (FI), Bouchard_71 (AU2), Breylor17_65 (AU1), Brunswick_67 (AU1), CapnMurica_63 (AU1), CastorTray_69 (AU1), Caterpillar_65 (AU4), Chlochlo_68 (AU2), Darby_64 (AU1), DevitoJr_65 (AU1), ElephantMan_66 (AU1), Elver_161 (FK), Elver_177 (FK), Gandionco_160 (FK), Gandionco_179 (FK), GantcherGoblin_66 (AU6), Giantsbane_69 (AU2), Gordon_63 (AU1), Ingrid_72 (AU3), Inked_71 (AU), Issa_67 (AU1), Jazzy4900_65 (FI), Jazzy4900_69 (FI), KevinMinion_67 (AU6), Leathea_68 (AU6), LilHuddy_70 (AU2), Loretta_69 (AU3), LucySwiss_67 (AU1), Makai_70 (AU5), MediumFry_66 (AU4), MiniBagel_65 (AU1), Navi1117_71 (AU6), Nightmare_67 (AU1), Niktson_66 (AU1), Nivinsha_69 (AU1), Paella_164 (FK), Paella_181 (FK), Phaby_71 (AU2), Phaila_70 (AU6), Qui_164 (FK), Qui_181 (FK), ScienceWizSam_67 (AU1), Shepard_71 (AU2), Sunny4976_64 (FI), Sunny4976_68 (FI), Synopsis_64 (AU1), Tatanka_61 (AU1), Teacup_67 (AU1), Tenney120_71 (AU6), Tenno_66 (AU1), Tokki_75 (AU2), TrixiePhattel_70 (AU6), Truckee_68 (AU5), Trustiboi_65 (AU1), Uzumaki_65 (AU6), Zeina_70 (AU6), Zippen_71 (AU3),

Summary by clusters:

There are 9 clusters represented in this pham: AU5, AU1, AU3, AU2, AU, AU4, AU6, FI, FK,

Info for manual annotations of cluster AU:

- Start number 36 was manually annotated 1 time for cluster AU.

Info for manual annotations of cluster AU1:

- Start number 36 was manually annotated 17 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 36 was manually annotated 5 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 36 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 36 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 36 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU6:

- Start number 36 was manually annotated 4 times for cluster AU6.

Info for manual annotations of cluster FK:

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

Gene Information:

Gene: Acai_66 Start: 45783, Stop: 46046, Start Num: 36

Candidate Starts for Acai_66:

(1, 45588), (11, 45633), (12, 45636), (15, 45645), (18, 45663), (19, 45666), (22, 45687), (23, 45690), (27, 45714), (Start: 36 @45783 has 37 MA's), (62, 46005), (64, 46020),

Gene: AreFloNak_69 Start: 45830, Stop: 46093, Start Num: 36

Candidate Starts for AreFloNak_69:

(Start: 36 @45830 has 37 MA's), (43, 45908), (64, 46067),

Gene: Argan_65 Start: 42966, Stop: 43247, Start Num: 36

Candidate Starts for Argan_65:

(Start: 36 @42966 has 37 MA's), (38, 42993), (41, 43038), (45, 43074), (57, 43158), (63, 43203),

Gene: Arzan_71 Start: 45586, Stop: 45873, Start Num: 36

Candidate Starts for Arzan_71:

(34, 45568), (Start: 36 @45586 has 37 MA's), (59, 45802),

Gene: Arzan_66 Start: 43794, Stop: 44099, Start Num: 36

Candidate Starts for Arzan_66:

(Start: 36 @43794 has 37 MA's), (48, 43950), (49, 43962), (53, 43983),

Gene: Bouchard_71 Start: 46435, Stop: 46707, Start Num: 36
Candidate Starts for Bouchard_71:
(Start: 36 @46435 has 37 MA's), (56, 46615),

Gene: Breylor17_65 Start: 46223, Stop: 46486, Start Num: 36
Candidate Starts for Breylor17_65:
(Start: 36 @46223 has 37 MA's), (43, 46301), (64, 46460),

Gene: Brunswick_67 Start: 45626, Stop: 45928, Start Num: 36
Candidate Starts for Brunswick_67:
(1, 45431), (4, 45440), (7, 45455), (15, 45488), (23, 45533), (27, 45557), (28, 45560), (Start: 36 @45626 has 37 MA's), (47, 45755),

Gene: CapnMurica_63 Start: 46364, Stop: 46666, Start Num: 36
Candidate Starts for CapnMurica_63:
(1, 46172), (11, 46217), (12, 46220), (15, 46229), (27, 46298), (Start: 36 @46364 has 37 MA's), (47, 46493),

Gene: CastorTray_69 Start: 46412, Stop: 46675, Start Num: 36
Candidate Starts for CastorTray_69:
(6, 46238), (8, 46244), (9, 46247), (25, 46334), (29, 46349), (Start: 36 @46412 has 37 MA's), (43, 46490), (64, 46649),

Gene: Caterpillar_65 Start: 45261, Stop: 45530, Start Num: 36
Candidate Starts for Caterpillar_65:
(1, 45066), (7, 45090), (23, 45165), (26, 45183), (27, 45189), (32, 45216), (Start: 36 @45261 has 37 MA's), (43, 45345), (46, 45375),

Gene: Chlochlo_68 Start: 45962, Stop: 46234, Start Num: 36
Candidate Starts for Chlochlo_68:
(Start: 36 @45962 has 37 MA's), (56, 46142),

Gene: Darby_64 Start: 45407, Stop: 45670, Start Num: 36
Candidate Starts for Darby_64:
(Start: 36 @45407 has 37 MA's), (43, 45485), (51, 45545), (64, 45644),

Gene: DevitoJr_65 Start: 45793, Stop: 46056, Start Num: 36
Candidate Starts for DevitoJr_65:
(Start: 36 @45793 has 37 MA's), (43, 45871), (64, 46030),

Gene: ElephantMan_66 Start: 46256, Stop: 46558, Start Num: 36
Candidate Starts for ElephantMan_66:
(1, 46061), (11, 46106), (12, 46109), (15, 46118), (18, 46136), (21, 46157), (22, 46160), (23, 46163), (27, 46187), (Start: 36 @46256 has 37 MA's), (47, 46385),

Gene: Elver_177 Start: 88404, Stop: 88703, Start Num: 36
Candidate Starts for Elver_177:
(Start: 36 @88404 has 37 MA's), (53, 88590), (65, 88686),

Gene: Elver_161 Start: 81584, Stop: 81901, Start Num: 36
Candidate Starts for Elver_161:
(24, 81500), (30, 81524), (Start: 36 @81584 has 37 MA's), (43, 81671), (48, 81743), (59, 81830), (62, 81857),

Gene: Gandionco_179 Start: 87798, Stop: 88097, Start Num: 36

Candidate Starts for Gandionco_179:

(Start: 36 @87798 has 37 MA's), (53, 87984), (65, 88080),

Gene: Gandionco_160 Start: 80664, Stop: 80981, Start Num: 36

Candidate Starts for Gandionco_160:

(24, 80580), (30, 80604), (Start: 36 @80664 has 37 MA's), (43, 80751), (48, 80823), (59, 80910), (62, 80937),

Gene: GantcherGoblin_66 Start: 43022, Stop: 43303, Start Num: 36

Candidate Starts for GantcherGoblin_66:

(Start: 36 @43022 has 37 MA's), (37, 43028), (38, 43049), (41, 43094), (45, 43130), (63, 43259),

Gene: Giantsbane_69 Start: 44963, Stop: 45232, Start Num: 36

Candidate Starts for Giantsbane_69:

(Start: 36 @44963 has 37 MA's), (44, 45056), (56, 45140), (64, 45206),

Gene: Gordon_63 Start: 46285, Stop: 46548, Start Num: 36

Candidate Starts for Gordon_63:

(Start: 36 @46285 has 37 MA's), (43, 46363), (64, 46522),

Gene: Ingrid_72 Start: 46231, Stop: 46503, Start Num: 36

Candidate Starts for Ingrid_72:

(Start: 36 @46231 has 37 MA's), (41, 46303), (56, 46411), (64, 46477),

Gene: Inked_71 Start: 46836, Stop: 47096, Start Num: 36

Candidate Starts for Inked_71:

(Start: 36 @46836 has 37 MA's), (40, 46902), (42, 46911), (45, 46944), (58, 47016),

Gene: Issa_67 Start: 45459, Stop: 45722, Start Num: 36

Candidate Starts for Issa_67:

(1, 45267), (11, 45312), (12, 45315), (15, 45324), (27, 45393), (Start: 36 @45459 has 37 MA's), (62, 45681), (64, 45696),

Gene: Jazzy4900_69 Start: 46463, Stop: 46738, Start Num: 36

Candidate Starts for Jazzy4900_69:

(Start: 36 @46463 has 37 MA's), (51, 46610), (54, 46631), (55, 46634), (56, 46643), (57, 46652), (59, 46667), (62, 46694),

Gene: Jazzy4900_65 Start: 44572, Stop: 44859, Start Num: 36

Candidate Starts for Jazzy4900_65:

(Start: 36 @44572 has 37 MA's), (53, 44758), (60, 44788), (61, 44791),

Gene: KevinMinion_67 Start: 43917, Stop: 44198, Start Num: 36

Candidate Starts for KevinMinion_67:

(Start: 36 @43917 has 37 MA's), (38, 43944), (45, 44025), (50, 44064), (52, 44079), (57, 44109), (63, 44154),

Gene: Leathea_68 Start: 42920, Stop: 43210, Start Num: 36

Candidate Starts for Leathea_68:

(Start: 36 @42920 has 37 MA's), (40, 42989), (59, 43139),

Gene: LilHuddy_70 Start: 46088, Stop: 46360, Start Num: 36
Candidate Starts for LilHuddy_70:
(Start: 36 @46088 has 37 MA's), (56, 46268),

Gene: Loretta_69 Start: 46231, Stop: 46503, Start Num: 36
Candidate Starts for Loretta_69:
(Start: 36 @46231 has 37 MA's), (41, 46303), (56, 46411), (64, 46477),

Gene: LucySwiss_67 Start: 45401, Stop: 45664, Start Num: 36
Candidate Starts for LucySwiss_67:
(Start: 36 @45401 has 37 MA's), (62, 45623), (64, 45638),

Gene: Makai_70 Start: 46375, Stop: 46647, Start Num: 36
Candidate Starts for Makai_70:
(Start: 36 @46375 has 37 MA's), (56, 46555), (62, 46606),

Gene: MediumFry_66 Start: 45539, Stop: 45841, Start Num: 36
Candidate Starts for MediumFry_66:
(1, 45362), (4, 45371), (11, 45404), (22, 45458), (26, 45479), (Start: 36 @45539 has 37 MA's),

Gene: MiniBagel_65 Start: 46355, Stop: 46624, Start Num: 36
Candidate Starts for MiniBagel_65:
(3, 46163), (5, 46172), (10, 46196), (13, 46208), (14, 46211), (16, 46217), (17, 46220), (29, 46289),
(Start: 36 @46355 has 37 MA's), (56, 46532),

Gene: Navi1117_71 Start: 43926, Stop: 44207, Start Num: 36
Candidate Starts for Navi1117_71:
(Start: 36 @43926 has 37 MA's), (38, 43953), (45, 44034), (50, 44073), (52, 44088), (57, 44118), (63, 44163),

Gene: Nightmare_67 Start: 46698, Stop: 46961, Start Num: 36
Candidate Starts for Nightmare_67:
(Start: 36 @46698 has 37 MA's), (43, 46776), (64, 46935),

Gene: Niktson_66 Start: 46256, Stop: 46558, Start Num: 36
Candidate Starts for Niktson_66:
(1, 46061), (11, 46106), (12, 46109), (15, 46118), (18, 46136), (21, 46157), (22, 46160), (23, 46163),
(27, 46187), (Start: 36 @46256 has 37 MA's), (47, 46385),

Gene: Nivinsha_69 Start: 45830, Stop: 46093, Start Num: 36
Candidate Starts for Nivinsha_69:
(Start: 36 @45830 has 37 MA's), (43, 45908), (64, 46067),

Gene: Paella_181 Start: 89280, Stop: 89579, Start Num: 36
Candidate Starts for Paella_181:
(Start: 36 @89280 has 37 MA's), (53, 89466), (65, 89562),

Gene: Paella_164 Start: 82455, Stop: 82772, Start Num: 36
Candidate Starts for Paella_164:
(24, 82371), (30, 82395), (Start: 36 @82455 has 37 MA's), (43, 82542), (48, 82614), (59, 82701), (62, 82728),

Gene: Phaby_71 Start: 46619, Stop: 46891, Start Num: 36

Candidate Starts for Phaby_71:
(Start: 36 @46619 has 37 MA's), (56, 46799), (64, 46865),

Gene: Phaila_70 Start: 43149, Stop: 43433, Start Num: 36
Candidate Starts for Phaila_70:
(Start: 36 @43149 has 37 MA's), (38, 43176), (52, 43314),

Gene: Qui_181 Start: 89277, Stop: 89576, Start Num: 36
Candidate Starts for Qui_181:
(Start: 36 @89277 has 37 MA's), (53, 89463), (65, 89559),

Gene: Qui_164 Start: 82455, Stop: 82772, Start Num: 36
Candidate Starts for Qui_164:
(24, 82371), (30, 82395), (Start: 36 @82455 has 37 MA's), (43, 82542), (48, 82614), (59, 82701), (62, 82728),

Gene: ScienceWizSam_67 Start: 45992, Stop: 46255, Start Num: 36
Candidate Starts for ScienceWizSam_67:
(Start: 36 @45992 has 37 MA's), (43, 46070), (64, 46229),

Gene: Shepard_71 Start: 45944, Stop: 46213, Start Num: 36
Candidate Starts for Shepard_71:
(Start: 36 @45944 has 37 MA's), (56, 46121),

Gene: Sunny4976_68 Start: 46463, Stop: 46738, Start Num: 36
Candidate Starts for Sunny4976_68:
(Start: 36 @46463 has 37 MA's), (51, 46610), (54, 46631), (55, 46634), (56, 46643), (57, 46652), (59, 46667), (62, 46694),

Gene: Sunny4976_64 Start: 44572, Stop: 44859, Start Num: 36
Candidate Starts for Sunny4976_64:
(Start: 36 @44572 has 37 MA's), (53, 44758), (60, 44788), (61, 44791),

Gene: Synopsis_64 Start: 45760, Stop: 46023, Start Num: 36
Candidate Starts for Synopsis_64:
(Start: 36 @45760 has 37 MA's), (43, 45838), (64, 45997),

Gene: Tatanka_61 Start: 45896, Stop: 46159, Start Num: 36
Candidate Starts for Tatanka_61:
(Start: 36 @45896 has 37 MA's), (43, 45974), (64, 46133),

Gene: Teacup_67 Start: 46335, Stop: 46598, Start Num: 36
Candidate Starts for Teacup_67:
(1, 46140), (11, 46185), (12, 46188), (15, 46197), (18, 46215), (21, 46236), (22, 46239), (27, 46266),
(Start: 36 @46335 has 37 MA's), (62, 46557), (64, 46572),

Gene: Tenney120_71 Start: 43682, Stop: 43963, Start Num: 36
Candidate Starts for Tenney120_71:
(Start: 36 @43682 has 37 MA's), (38, 43709), (41, 43754), (45, 43790), (63, 43919),

Gene: Tenno_66 Start: 46419, Stop: 46703, Start Num: 36
Candidate Starts for Tenno_66:

(1, 46227), (4, 46236), (11, 46272), (12, 46275), (15, 46284), (18, 46302), (22, 46326), (Start: 36 @46419 has 37 MA's), (63, 46662),

Gene: Tokki_75 Start: 46487, Stop: 46759, Start Num: 36

Candidate Starts for Tokki_75:

(Start: 36 @46487 has 37 MA's), (56, 46667),

Gene: TrixiePhattel_70 Start: 43311, Stop: 43595, Start Num: 36

Candidate Starts for TrixiePhattel_70:

(20, 43206), (21, 43209), (25, 43230), (28, 43242), (31, 43260), (33, 43281), (35, 43296), (Start: 36 @43311 has 37 MA's), (38, 43338), (39, 43356), (52, 43476),

Gene: Truckee_68 Start: 46153, Stop: 46425, Start Num: 36

Candidate Starts for Truckee_68:

(Start: 36 @46153 has 37 MA's), (56, 46333), (62, 46384),

Gene: Trustiboi_65 Start: 46015, Stop: 46278, Start Num: 36

Candidate Starts for Trustiboi_65:

(Start: 36 @46015 has 37 MA's), (43, 46093), (51, 46153), (64, 46252),

Gene: Uzumaki_65 Start: 43123, Stop: 43404, Start Num: 36

Candidate Starts for Uzumaki_65:

(Start: 36 @43123 has 37 MA's), (37, 43129), (38, 43150), (41, 43195), (45, 43231), (63, 43360),

Gene: Zeina_70 Start: 43817, Stop: 44101, Start Num: 36

Candidate Starts for Zeina_70:

(Start: 36 @43817 has 37 MA's), (38, 43844), (52, 43982),

Gene: Zippen_71 Start: 46707, Stop: 46982, Start Num: 36

Candidate Starts for Zippen_71:

(2, 46512), (9, 46539), (14, 46563), (15, 46566), (26, 46629), (27, 46635), (32, 46662), (Start: 36 @46707 has 37 MA's), (41, 46779), (42, 46782), (56, 46890), (62, 46941),