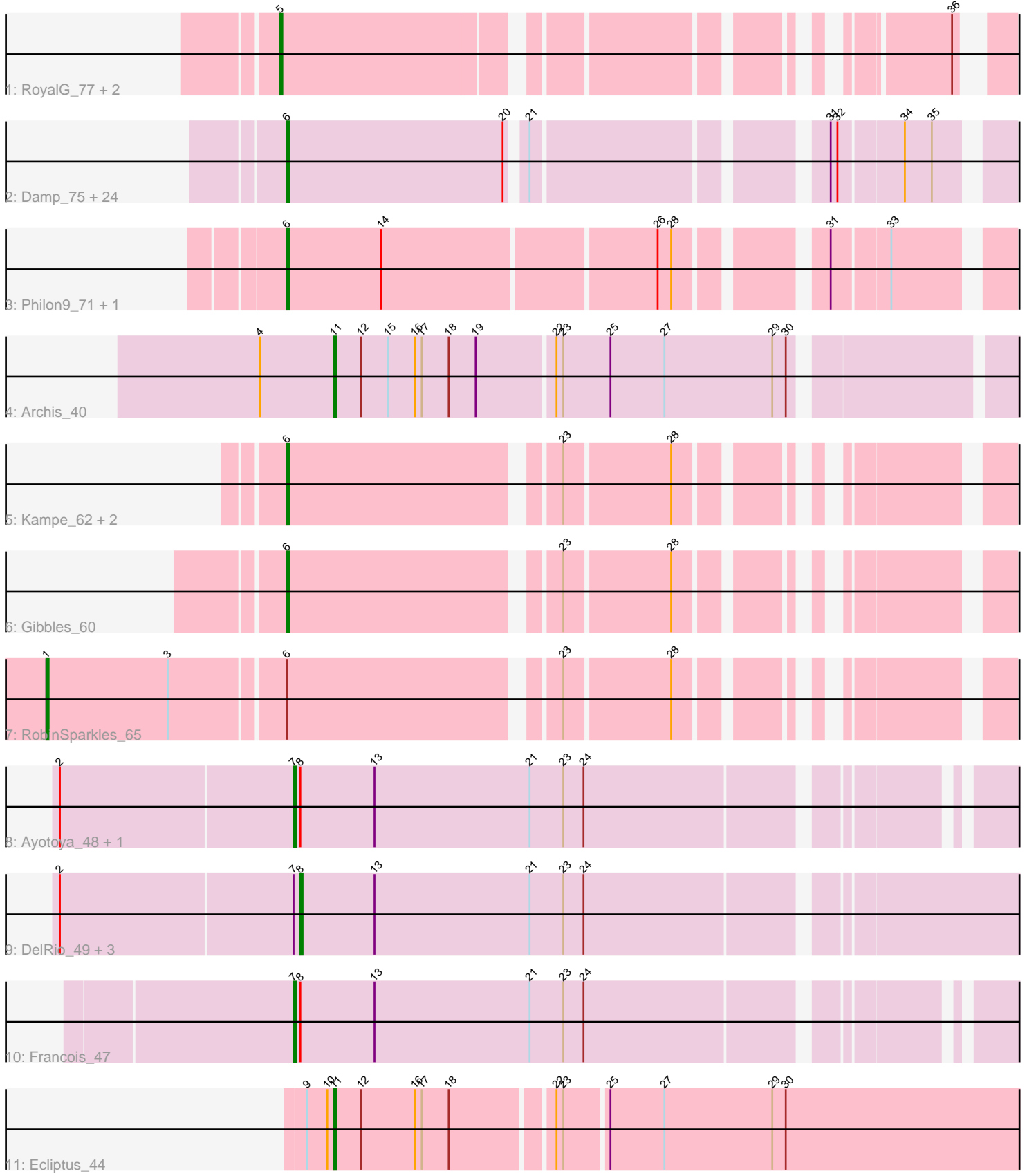


Pham 296700



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 296700 Report

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

Pham number 296700 has 44 members, 0 are drafts.

Phages represented in each track:

- Track 1 : RoyalG_77, Diabla_82, SteveFrench_76
- Track 2 : Damp_75, Anamika_74, Bianmat_75, GalacticEye_75, Charianelly_75, Teal_74, Berries_75, Hello_74, MrWormie_75, Harambe_74, Guillaume_74, Luker_76, Jams_75, Lahirium_74, Hail2Pitt_73, Kaseim_75, Newt_76, Woes_74, Neevie_74, Jormungandr_74, Nimi13_74, Minos_76, Lidong_75, Sticker17_75, Shelley_75
- Track 3 : Philon9_71, Vitaenoi_71
- Track 4 : Archis_40
- Track 5 : Kampe_62, PatrickStar_62, Orchid_61
- Track 6 : Gibbles_60
- Track 7 : RobinSparkles_65
- Track 8 : Ayotoya_48, Nadeem_48
- Track 9 : DelRio_49, GrandSlam_48, Chop_48, Hamood_48
- Track 10 : Francois_47
- Track 11 : Ecliptus_44

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

The start number called the most often in the published annotations is 6, it was called in 31 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anamika_74, Berries_75, Bianmat_75, Charianelly_75, Damp_75, GalacticEye_75, Gibbles_60, Guillaume_74, Hail2Pitt_73, Harambe_74, Hello_74, Jams_75, Jormungandr_74, Kampe_62, Kaseim_75, Lahirium_74, Lidong_75, Luker_76, Minos_76, MrWormie_75, Neevie_74, Newt_76, Nimi13_74, Orchid_61, PatrickStar_62, Philon9_71, Shelley_75, Sticker17_75, Teal_74, Vitaenoi_71, Woes_74,

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

- RobinSparkles_65,

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

- Archis_40, Ayotoya_48, Chop_48, DelRio_49, Diabla_82, Ecliptus_44, Francois_47, GrandSlam_48, Hamood_48, Nadeem_48, RoyalG_77, SteveFrench_76,

Summary by start number:

Start 1:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RobinSparkles_65 (CX),

Start 5:

- Found in 3 of 44 (6.8%) of genes in pham
- Manual Annotations of this start: 3 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Diabla_82 (CS2), RoyalG_77 (CS2), SteveFrench_76 (CS2),

Start 6:

- Found in 32 of 44 (72.7%) of genes in pham
- Manual Annotations of this start: 31 of 44
- Called 96.9% of time when present
- Phage (with cluster) where this start called: Anamika_74 (CS3), Berries_75 (CS3), Bianmat_75 (CS3), Charianelly_75 (CS3), Damp_75 (CS3), GalacticEye_75 (CS3), Gibbles_60 (CX), Guillaume_74 (CS3), Hail2Pitt_73 (CS3), Harambe_74 (CS3), Hello_74 (CS3), Jams_75 (CS3), Jormungandr_74 (CS3), Kampe_62 (CX), Kaseim_75 (CS3), Lahirium_74 (CS3), Lidong_75 (CS3), Luker_76 (CS3), Minos_76 (CS3), MrWormie_75 (CS3), Neoevie_74 (CS3), Newt_76 (CS3), Nimi13_74 (CS3), Orchid_61 (CX), PatrickStar_62 (CX), Philon9_71 (CS4), Shelley_75 (CS3), Sticker17_75 (CS3), Teal_74 (CS3), Vitaenoi_71 (CS4), Woes_74 (CS3),

Start 7:

- Found in 7 of 44 (15.9%) of genes in pham
- Manual Annotations of this start: 3 of 44
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Ayotoya_48 (DI), Francois_47 (DI), Nadeem_48 (DI),

Start 8:

- Found in 7 of 44 (15.9%) of genes in pham
- Manual Annotations of this start: 4 of 44
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Chop_48 (DI), DelRio_49 (DI), GrandSlam_48 (DI), Hamood_48 (DI),

Start 11:

- Found in 2 of 44 (4.5%) of genes in pham
- Manual Annotations of this start: 2 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archis_40 (CV), Ecliptus_44 (DN),

Summary by clusters:

There are 7 clusters represented in this pham: DN, DI, CX, CS4, CV, CS3, CS2,

Info for manual annotations of cluster CS2:

- Start number 5 was manually annotated 3 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 6 was manually annotated 25 times for cluster CS3.

Info for manual annotations of cluster CS4:

- Start number 6 was manually annotated 2 times for cluster CS4.

Info for manual annotations of cluster CV:

- Start number 11 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CX:

- Start number 1 was manually annotated 1 time for cluster CX.
- Start number 6 was manually annotated 4 times for cluster CX.

Info for manual annotations of cluster DI:

- Start number 7 was manually annotated 3 times for cluster DI.
- Start number 8 was manually annotated 4 times for cluster DI.

Info for manual annotations of cluster DN:

- Start number 11 was manually annotated 1 time for cluster DN.

Gene Information:

Gene: Anamika_74 Start: 60867, Stop: 60544, Start Num: 6

Candidate Starts for Anamika_74:

(Start: 6 @60867 has 31 MA's), (20, 60771), (21, 60765), (31, 60651), (32, 60648), (34, 60621), (35, 60609),

Gene: Archis_40 Start: 30536, Stop: 30222, Start Num: 11

Candidate Starts for Archis_40:

(4, 30569), (Start: 11 @30536 has 2 MA's), (12, 30524), (15, 30512), (16, 30500), (17, 30497), (18, 30485), (19, 30473), (22, 30440), (23, 30437), (25, 30416), (27, 30392), (29, 30344), (30, 30338),

Gene: Ayotoya_48 Start: 35650, Stop: 35985, Start Num: 7

Candidate Starts for Ayotoya_48:

(2, 35548), (Start: 7 @35650 has 3 MA's), (Start: 8 @35653 has 4 MA's), (13, 35686), (21, 35755), (23, 35770), (24, 35779),

Gene: Berries_75 Start: 60839, Stop: 60516, Start Num: 6

Candidate Starts for Berries_75:

(Start: 6 @60839 has 31 MA's), (20, 60743), (21, 60737), (31, 60623), (32, 60620), (34, 60593), (35, 60581),

Gene: Bianmat_75 Start: 60879, Stop: 60556, Start Num: 6

Candidate Starts for Bianmat_75:

(Start: 6 @60879 has 31 MA's), (20, 60783), (21, 60777), (31, 60663), (32, 60660), (34, 60633), (35, 60621),

Gene: Charianelly_75 Start: 60589, Stop: 60266, Start Num: 6

Candidate Starts for Charianelly_75:

(Start: 6 @60589 has 31 MA's), (20, 60493), (21, 60487), (31, 60373), (32, 60370), (34, 60343), (35, 60331),

Gene: Chop_48 Start: 35400, Stop: 35738, Start Num: 8

Candidate Starts for Chop_48:

(2, 35295), (Start: 7 @35397 has 3 MA's), (Start: 8 @35400 has 4 MA's), (13, 35433), (21, 35502), (23, 35517), (24, 35526),

Gene: Damp_75 Start: 59753, Stop: 59430, Start Num: 6

Candidate Starts for Damp_75:

(Start: 6 @59753 has 31 MA's), (20, 59657), (21, 59651), (31, 59537), (32, 59534), (34, 59507), (35, 59495),

Gene: DelRio_49 Start: 36105, Stop: 36449, Start Num: 8

Candidate Starts for DelRio_49:

(2, 36000), (Start: 7 @36102 has 3 MA's), (Start: 8 @36105 has 4 MA's), (13, 36138), (21, 36207), (23, 36222), (24, 36231),

Gene: Diabla_82 Start: 62036, Stop: 61740, Start Num: 5

Candidate Starts for Diabla_82:

(Start: 5 @62036 has 3 MA's), (36, 61790),

Gene: Ecliptus_44 Start: 32044, Stop: 31706, Start Num: 11

Candidate Starts for Ecliptus_44:

(9, 32056), (10, 32047), (Start: 11 @32044 has 2 MA's), (12, 32032), (16, 32008), (17, 32005), (18, 31993), (22, 31951), (23, 31948), (25, 31930), (27, 31906), (29, 31858), (30, 31852),

Gene: Francois_47 Start: 34916, Stop: 35251, Start Num: 7

Candidate Starts for Francois_47:

(Start: 7 @34916 has 3 MA's), (Start: 8 @34919 has 4 MA's), (13, 34952), (21, 35021), (23, 35036), (24, 35045),

Gene: GalacticEye_75 Start: 60550, Stop: 60227, Start Num: 6

Candidate Starts for GalacticEye_75:

(Start: 6 @60550 has 31 MA's), (20, 60454), (21, 60448), (31, 60334), (32, 60331), (34, 60304), (35, 60292),

Gene: Gibbles_60 Start: 52361, Stop: 52059, Start Num: 6

Candidate Starts for Gibbles_60:

(Start: 6 @52361 has 31 MA's), (23, 52250), (28, 52205),

Gene: GrandSlam_48 Start: 35400, Stop: 35738, Start Num: 8

Candidate Starts for GrandSlam_48:

(2, 35295), (Start: 7 @35397 has 3 MA's), (Start: 8 @35400 has 4 MA's), (13, 35433), (21, 35502), (23, 35517), (24, 35526),

Gene: Guillaume_74 Start: 60600, Stop: 60277, Start Num: 6

Candidate Starts for Guillaume_74:

(Start: 6 @60600 has 31 MA's), (20, 60504), (21, 60498), (31, 60384), (32, 60381), (34, 60354), (35, 60342),

Gene: Hail2Pitt_73 Start: 61076, Stop: 60753, Start Num: 6

Candidate Starts for Hail2Pitt_73:

(Start: 6 @61076 has 31 MA's), (20, 60980), (21, 60974), (31, 60860), (32, 60857), (34, 60830), (35, 60818),

Gene: Hamood_48 Start: 35400, Stop: 35738, Start Num: 8

Candidate Starts for Hamood_48:

(2, 35295), (Start: 7 @35397 has 3 MA's), (Start: 8 @35400 has 4 MA's), (13, 35433), (21, 35502), (23, 35517), (24, 35526),

Gene: Harambe_74 Start: 60867, Stop: 60544, Start Num: 6

Candidate Starts for Harambe_74:

(Start: 6 @60867 has 31 MA's), (20, 60771), (21, 60765), (31, 60651), (32, 60648), (34, 60621), (35, 60609),

Gene: Hello_74 Start: 60829, Stop: 60506, Start Num: 6

Candidate Starts for Hello_74:

(Start: 6 @60829 has 31 MA's), (20, 60733), (21, 60727), (31, 60613), (32, 60610), (34, 60583), (35, 60571),

Gene: Jams_75 Start: 60039, Stop: 59716, Start Num: 6

Candidate Starts for Jams_75:

(Start: 6 @60039 has 31 MA's), (20, 59943), (21, 59937), (31, 59823), (32, 59820), (34, 59793), (35, 59781),

Gene: Jormungandr_74 Start: 60582, Stop: 60259, Start Num: 6

Candidate Starts for Jormungandr_74:

(Start: 6 @60582 has 31 MA's), (20, 60486), (21, 60480), (31, 60366), (32, 60363), (34, 60336), (35, 60324),

Gene: Kampe_62 Start: 52344, Stop: 52042, Start Num: 6

Candidate Starts for Kampe_62:

(Start: 6 @52344 has 31 MA's), (23, 52233), (28, 52188),

Gene: Kaseim_75 Start: 60024, Stop: 59701, Start Num: 6

Candidate Starts for Kaseim_75:

(Start: 6 @60024 has 31 MA's), (20, 59928), (21, 59922), (31, 59808), (32, 59805), (34, 59778), (35, 59766),

Gene: Lahirium_74 Start: 61104, Stop: 60781, Start Num: 6

Candidate Starts for Lahirium_74:

(Start: 6 @61104 has 31 MA's), (20, 61008), (21, 61002), (31, 60888), (32, 60885), (34, 60858), (35, 60846),

Gene: Lidong_75 Start: 60839, Stop: 60516, Start Num: 6

Candidate Starts for Lidong_75:

(Start: 6 @60839 has 31 MA's), (20, 60743), (21, 60737), (31, 60623), (32, 60620), (34, 60593), (35, 60581),

Gene: Luker_76 Start: 61057, Stop: 60734, Start Num: 6

Candidate Starts for Luker_76:

(Start: 6 @61057 has 31 MA's), (20, 60961), (21, 60955), (31, 60841), (32, 60838), (34, 60811), (35, 60799),

Gene: Minos_76 Start: 60581, Stop: 60258, Start Num: 6

Candidate Starts for Minos_76:

(Start: 6 @60581 has 31 MA's), (20, 60485), (21, 60479), (31, 60365), (32, 60362), (34, 60335), (35, 60323),

Gene: MrWormie_75 Start: 59742, Stop: 59419, Start Num: 6

Candidate Starts for MrWormie_75:

(Start: 6 @59742 has 31 MA's), (20, 59646), (21, 59640), (31, 59526), (32, 59523), (34, 59496), (35, 59484),

Gene: Nadeem_48 Start: 34920, Stop: 35255, Start Num: 7

Candidate Starts for Nadeem_48:

(2, 34818), (Start: 7 @34920 has 3 MA's), (Start: 8 @34923 has 4 MA's), (13, 34956), (21, 35025), (23, 35040), (24, 35049),

Gene: Neoevie_74 Start: 60843, Stop: 60520, Start Num: 6

Candidate Starts for Neoevie_74:

(Start: 6 @60843 has 31 MA's), (20, 60747), (21, 60741), (31, 60627), (32, 60624), (34, 60597), (35, 60585),

Gene: Newt_76 Start: 61071, Stop: 60748, Start Num: 6

Candidate Starts for Newt_76:

(Start: 6 @61071 has 31 MA's), (20, 60975), (21, 60969), (31, 60855), (32, 60852), (34, 60825), (35, 60813),

Gene: Nimi13_74 Start: 60590, Stop: 60267, Start Num: 6

Candidate Starts for Nimi13_74:

(Start: 6 @60590 has 31 MA's), (20, 60494), (21, 60488), (31, 60374), (32, 60371), (34, 60344), (35, 60332),

Gene: Orchid_61 Start: 52345, Stop: 52043, Start Num: 6

Candidate Starts for Orchid_61:

(Start: 6 @52345 has 31 MA's), (23, 52234), (28, 52189),

Gene: PatrickStar_62 Start: 52344, Stop: 52042, Start Num: 6

Candidate Starts for PatrickStar_62:

(Start: 6 @52344 has 31 MA's), (23, 52233), (28, 52188),

Gene: Philon9_71 Start: 61064, Stop: 60738, Start Num: 6

Candidate Starts for Philon9_71:

(Start: 6 @61064 has 31 MA's), (14, 61022), (26, 60905), (28, 60899), (31, 60845), (33, 60821),

Gene: RobinSparkles_65 Start: 52999, Stop: 52595, Start Num: 1

Candidate Starts for RobinSparkles_65:

(Start: 1 @52999 has 1 MA's), (3, 52945), (Start: 6 @52897 has 31 MA's), (23, 52786), (28, 52741),

Gene: RoyalG_77 Start: 60476, Stop: 60180, Start Num: 5

Candidate Starts for RoyalG_77:

(Start: 5 @60476 has 3 MA's), (36, 60230),

Gene: Shelley_75 Start: 60066, Stop: 59743, Start Num: 6

Candidate Starts for Shelley_75:

(Start: 6 @60066 has 31 MA's), (20, 59970), (21, 59964), (31, 59850), (32, 59847), (34, 59820), (35, 59808),

Gene: SteveFrench_76 Start: 60716, Stop: 60420, Start Num: 5

Candidate Starts for SteveFrench_76:

(Start: 5 @60716 has 3 MA's), (36, 60470),

Gene: Sticker17_75 Start: 60554, Stop: 60231, Start Num: 6

Candidate Starts for Sticker17_75:

(Start: 6 @60554 has 31 MA's), (20, 60458), (21, 60452), (31, 60338), (32, 60335), (34, 60308), (35, 60296),

Gene: Teal_74 Start: 61048, Stop: 60725, Start Num: 6

Candidate Starts for Teal_74:

(Start: 6 @61048 has 31 MA's), (20, 60952), (21, 60946), (31, 60832), (32, 60829), (34, 60802), (35, 60790),

Gene: Vitaenoi_71 Start: 61048, Stop: 60722, Start Num: 6

Candidate Starts for Vitaenoi_71:

(Start: 6 @61048 has 31 MA's), (14, 61006), (26, 60889), (28, 60883), (31, 60829), (33, 60805),

Gene: Woes_74 Start: 61099, Stop: 60776, Start Num: 6

Candidate Starts for Woes_74:

(Start: 6 @61099 has 31 MA's), (20, 61003), (21, 60997), (31, 60883), (32, 60880), (34, 60853), (35, 60841),