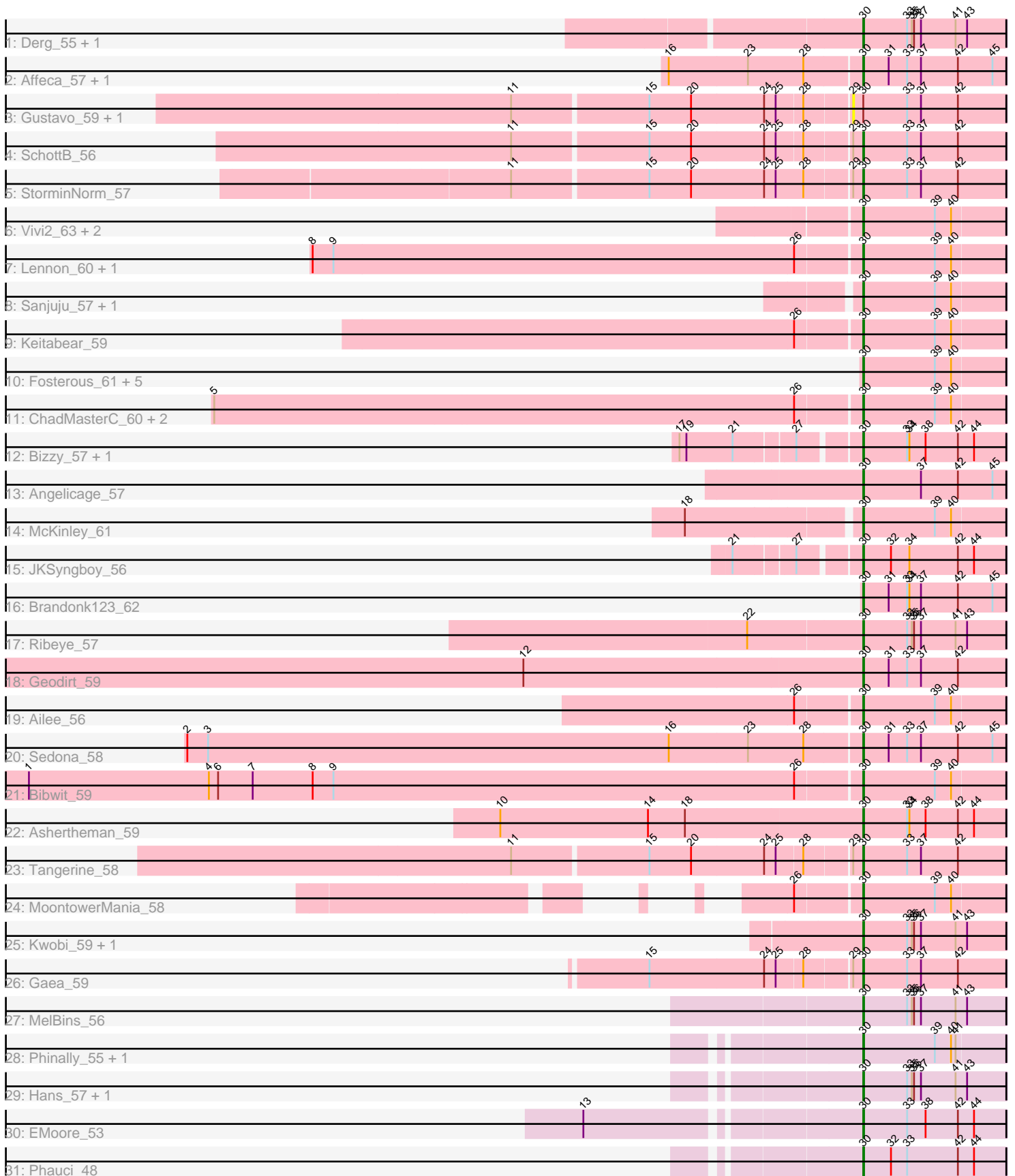


Pham 85813



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 85813 Report

This analysis was run 04/28/24 on database version 559.

Pham number 85813 has 49 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Derg_55, Flatwoods_57
- Track 2 : Affeca_57, Sitar_60
- Track 3 : Gustavo_59, Saronaya_59
- Track 4 : SchottB_56
- Track 5 : StorminNorm_57
- Track 6 : Vivi2_63, Nordenberg_56, Charming_61
- Track 7 : Lennon_60, Stultus_56
- Track 8 : Sanjuju_57, Jabberwocky_57
- Track 9 : Keitabear_59
- Track 10 : Fosterous_61, Paries_62, Thing3_58, Kamashten_58, Tangent_60, BobBob_58
- Track 11 : ChadMasterC_60, Kewpiedoll_59, Barsten_60
- Track 12 : Bizzy_57, Baumdotcom_55
- Track 13 : Angelicage_57
- Track 14 : McKinley_61
- Track 15 : JKSyngboy_56
- Track 16 : Brandonk123_62
- Track 17 : Ribeye_57
- Track 18 : Geodirt_59
- Track 19 : Ailee_56
- Track 20 : Sedona_58
- Track 21 : Bibwit_59
- Track 22 : Ashertheman_59
- Track 23 : Tangerine_58
- Track 24 : MoontowerMania_58
- Track 25 : Kwobi_59, Kroos_57
- Track 26 : Gaea_59
- Track 27 : MelBins_56
- Track 28 : Phinally_55, Leonard_55
- Track 29 : Hans_57, Ali17_53
- Track 30 : EMoore_53
- Track 31 : Phauci_48

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

The start number called the most often in the published annotations is 30, it was called in 42 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Affeca_57, Ailee_56, Ali17_53, Angelicage_57, Ashertheman_59, Barsten_60, Baumdotcom_55, Bibwit_59, Bizzy_57, BobBob_58, Brandonk123_62, ChadMasterC_60, Charming_61, Derg_55, EMoore_53, Flatwoods_57, Fosterous_61, Gaea_59, Geodirt_59, Hans_57, JKSyngboy_56, Jabberwocky_57, Kamashten_58, Keitabear_59, Kewpiedoll_59, Kroos_57, Kwobi_59, Lennon_60, Leonard_55, McKinley_61, MelBins_56, MoontowerMania_58, Nordenberg_56, Paries_62, Phauci_48, Phinally_55, Ribeye_57, Sanjuju_57, SchottB_56, Sedona_58, Sitar_60, StorminNorm_57, Stultus_56, Tangent_60, Tangerine_58, Thing3_58, Vivi2_63,

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

- Gustavo_59, Saronaya_59,

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

-

Summary by start number:

Start 29:

- Found in 6 of 49 (12.2%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Gustavo_59 (DE1), Saronaya_59 (DE1),

Start 30:

- Found in 49 of 49 (100.0%) of genes in pham
- Manual Annotations of this start: 42 of 42
- Called 95.9% of time when present
- Phage (with cluster) where this start called: Affeca_57 (DE1), Ailee_56 (DE1), Ali17_53 (DE2), Angelicage_57 (DE1), Ashertheman_59 (DE1), Barsten_60 (DE1), Baumdotcom_55 (DE1), Bibwit_59 (DE1), Bizzy_57 (DE1), BobBob_58 (DE1), Brandonk123_62 (DE1), ChadMasterC_60 (DE1), Charming_61 (DE1), Derg_55 (DE1), EMoore_53 (DE2), Flatwoods_57 (DE1), Fosterous_61 (DE1), Gaea_59 (DE1), Geodirt_59 (DE1), Hans_57 (DE2), JKSyngboy_56 (DE1), Jabberwocky_57 (DE1), Kamashten_58 (DE1), Keitabear_59 (DE1), Kewpiedoll_59 (DE1), Kroos_57 (DE1), Kwobi_59 (DE1), Lennon_60 (DE1), Leonard_55 (DE2), McKinley_61 (DE1), MelBins_56 (DE2), MoontowerMania_58 (DE1), Nordenberg_56 (DE1), Paries_62 (DE1), Phauci_48 (DE2), Phinally_55 (DE2), Ribeye_57 (DE1), Sanjuju_57 (DE1), SchottB_56 (DE1), Sedona_58 (DE1), Sitar_60 (DE1), StorminNorm_57 (DE1), Stultus_56 (DE1), Tangent_60 (DE1), Tangerine_58 (DE1), Thing3_58 (DE1), Vivi2_63 (DE1),

Summary by clusters:

There are 2 clusters represented in this pham: DE1, DE2,

Info for manual annotations of cluster DE1:

- Start number 30 was manually annotated 35 times for cluster DE1.

Info for manual annotations of cluster DE2:

•Start number 30 was manually annotated 7 times for cluster DE2.

Gene Information:

Gene: Affeca_57 Start: 48114, Stop: 48299, Start Num: 30

Candidate Starts for Affeca_57:

(16, 47868), (23, 47970), (28, 48042), (Start: 30 @48114 has 42 MA's), (31, 48147), (33, 48171), (37, 48189), (42, 48237), (45, 48282),

Gene: Ailee_56 Start: 47542, Stop: 47721, Start Num: 30

Candidate Starts for Ailee_56:

(26, 47461), (Start: 30 @47542 has 42 MA's), (39, 47635), (40, 47653),

Gene: Ali17_53 Start: 45126, Stop: 45311, Start Num: 30

Candidate Starts for Ali17_53:

(Start: 30 @45126 has 42 MA's), (33, 45183), (35, 45189), (36, 45192), (37, 45201), (41, 45246), (43, 45261),

Gene: Angelicage_57 Start: 48187, Stop: 48372, Start Num: 30

Candidate Starts for Angelicage_57:

(Start: 30 @48187 has 42 MA's), (37, 48262), (42, 48310), (45, 48355),

Gene: Ashertheman_59 Start: 47333, Stop: 47518, Start Num: 30

Candidate Starts for Ashertheman_59:

(10, 46865), (14, 47057), (18, 47105), (Start: 30 @47333 has 42 MA's), (33, 47390), (34, 47393), (38, 47414), (42, 47456), (44, 47477),

Gene: Barsten_60 Start: 48335, Stop: 48514, Start Num: 30

Candidate Starts for Barsten_60:

(5, 47504), (26, 48254), (Start: 30 @48335 has 42 MA's), (39, 48428), (40, 48446),

Gene: Baumdotcom_55 Start: 46130, Stop: 46315, Start Num: 30

Candidate Starts for Baumdotcom_55:

(17, 45917), (19, 45926), (21, 45986), (27, 46058), (Start: 30 @46130 has 42 MA's), (33, 46187), (34, 46190), (38, 46211), (42, 46253), (44, 46274),

Gene: Bibwit_59 Start: 47588, Stop: 47767, Start Num: 30

Candidate Starts for Bibwit_59:

(1, 46514), (4, 46748), (6, 46760), (7, 46805), (8, 46883), (9, 46910), (26, 47507), (Start: 30 @47588 has 42 MA's), (39, 47681), (40, 47699),

Gene: Bizzy_57 Start: 46921, Stop: 47103, Start Num: 30

Candidate Starts for Bizzy_57:

(17, 46708), (19, 46717), (21, 46777), (27, 46849), (Start: 30 @46921 has 42 MA's), (33, 46978), (34, 46981), (38, 47002), (42, 47044), (44, 47062),

Gene: BobBob_58 Start: 47409, Stop: 47588, Start Num: 30

Candidate Starts for BobBob_58:

(Start: 30 @47409 has 42 MA's), (39, 47502), (40, 47520),

Gene: Brandonk123_62 Start: 47934, Stop: 48119, Start Num: 30

Candidate Starts for Brandonk123_62:

(Start: 30 @47934 has 42 MA's), (31, 47967), (33, 47991), (34, 47994), (37, 48009), (42, 48057), (45, 48102),

Gene: ChadMasterC_60 Start: 49743, Stop: 49922, Start Num: 30

Candidate Starts for ChadMasterC_60:

(5, 48912), (26, 49662), (Start: 30 @49743 has 42 MA's), (39, 49836), (40, 49854),

Gene: Charming_61 Start: 47197, Stop: 47376, Start Num: 30

Candidate Starts for Charming_61:

(Start: 30 @47197 has 42 MA's), (39, 47290), (40, 47308),

Gene: Derg_55 Start: 45624, Stop: 45809, Start Num: 30

Candidate Starts for Derg_55:

(Start: 30 @45624 has 42 MA's), (33, 45681), (35, 45687), (36, 45690), (37, 45699), (41, 45744), (43, 45759),

Gene: EMoore_53 Start: 46496, Stop: 46681, Start Num: 30

Candidate Starts for EMoore_53:

(13, 46163), (Start: 30 @46496 has 42 MA's), (33, 46553), (38, 46577), (42, 46619), (44, 46640),

Gene: Flatwoods_57 Start: 45970, Stop: 46155, Start Num: 30

Candidate Starts for Flatwoods_57:

(Start: 30 @45970 has 42 MA's), (33, 46027), (35, 46033), (36, 46036), (37, 46045), (41, 46090), (43, 46105),

Gene: Fosterous_61 Start: 48344, Stop: 48523, Start Num: 30

Candidate Starts for Fosterous_61:

(Start: 30 @48344 has 42 MA's), (39, 48437), (40, 48455),

Gene: Gaea_59 Start: 46536, Stop: 46721, Start Num: 30

Candidate Starts for Gaea_59:

(15, 46272), (24, 46419), (25, 46434), (28, 46467), (29, 46524), (Start: 30 @46536 has 42 MA's), (33, 46593), (37, 46611), (42, 46659),

Gene: Geodirt_59 Start: 48781, Stop: 48966, Start Num: 30

Candidate Starts for Geodirt_59:

(12, 48343), (Start: 30 @48781 has 42 MA's), (31, 48814), (33, 48838), (37, 48856), (42, 48904),

Gene: Gustavo_59 Start: 47035, Stop: 47232, Start Num: 29

Candidate Starts for Gustavo_59:

(11, 46612), (15, 46783), (20, 46837), (24, 46930), (25, 46945), (28, 46978), (29, 47035), (Start: 30 @47047 has 42 MA's), (33, 47104), (37, 47122), (42, 47170),

Gene: Hans_57 Start: 45757, Stop: 45942, Start Num: 30

Candidate Starts for Hans_57:

(Start: 30 @45757 has 42 MA's), (33, 45814), (35, 45820), (36, 45823), (37, 45832), (41, 45877), (43, 45892),

Gene: JKSyngboy_56 Start: 47457, Stop: 47642, Start Num: 30

Candidate Starts for JKSyngboy_56:

(21, 47313), (27, 47385), (Start: 30 @47457 has 42 MA's), (32, 47493), (34, 47517), (42, 47580), (44, 47601),

Gene: Jabberwocky_57 Start: 48628, Stop: 48807, Start Num: 30

Candidate Starts for Jabberwocky_57:

(Start: 30 @48628 has 42 MA's), (39, 48721), (40, 48739),

Gene: Kamashten_58 Start: 47522, Stop: 47701, Start Num: 30

Candidate Starts for Kamashten_58:

(Start: 30 @47522 has 42 MA's), (39, 47615), (40, 47633),

Gene: Keitabear_59 Start: 49197, Stop: 49376, Start Num: 30

Candidate Starts for Keitabear_59:

(26, 49116), (Start: 30 @49197 has 42 MA's), (39, 49290), (40, 49308),

Gene: Kewpiedoll_59 Start: 48576, Stop: 48755, Start Num: 30

Candidate Starts for Kewpiedoll_59:

(5, 47745), (26, 48495), (Start: 30 @48576 has 42 MA's), (39, 48669), (40, 48687),

Gene: Kroos_57 Start: 47067, Stop: 47252, Start Num: 30

Candidate Starts for Kroos_57:

(Start: 30 @47067 has 42 MA's), (33, 47124), (35, 47130), (36, 47133), (37, 47142), (41, 47187), (43, 47202),

Gene: Kwobi_59 Start: 47762, Stop: 47947, Start Num: 30

Candidate Starts for Kwobi_59:

(Start: 30 @47762 has 42 MA's), (33, 47819), (35, 47825), (36, 47828), (37, 47837), (41, 47882), (43, 47897),

Gene: Lennon_60 Start: 49505, Stop: 49684, Start Num: 30

Candidate Starts for Lennon_60:

(8, 48800), (9, 48827), (26, 49424), (Start: 30 @49505 has 42 MA's), (39, 49598), (40, 49616),

Gene: Leonard_55 Start: 46133, Stop: 46312, Start Num: 30

Candidate Starts for Leonard_55:

(Start: 30 @46133 has 42 MA's), (39, 46226), (40, 46244), (41, 46250),

Gene: McKinley_61 Start: 48325, Stop: 48504, Start Num: 30

Candidate Starts for McKinley_61:

(18, 48115), (Start: 30 @48325 has 42 MA's), (39, 48418), (40, 48436),

Gene: MelBins_56 Start: 46239, Stop: 46424, Start Num: 30

Candidate Starts for MelBins_56:

(Start: 30 @46239 has 42 MA's), (33, 46296), (35, 46302), (36, 46305), (37, 46314), (41, 46359), (43, 46374),

Gene: MoontowerMania_58 Start: 48623, Stop: 48802, Start Num: 30

Candidate Starts for MoontowerMania_58:

(26, 48542), (Start: 30 @48623 has 42 MA's), (39, 48716), (40, 48734),

Gene: Nordenberg_56 Start: 46761, Stop: 46940, Start Num: 30

Candidate Starts for Nordenberg_56:

(Start: 30 @46761 has 42 MA's), (39, 46854), (40, 46872),

Gene: Paries_62 Start: 48660, Stop: 48839, Start Num: 30

Candidate Starts for Paries_62:

(Start: 30 @48660 has 42 MA's), (39, 48753), (40, 48771),

Gene: Phauci_48 Start: 42760, Stop: 42945, Start Num: 30

Candidate Starts for Phauci_48:

(Start: 30 @42760 has 42 MA's), (32, 42796), (33, 42817), (42, 42883), (44, 42904),

Gene: Phinally_55 Start: 46130, Stop: 46309, Start Num: 30

Candidate Starts for Phinally_55:

(Start: 30 @46130 has 42 MA's), (39, 46223), (40, 46241), (41, 46247),

Gene: Ribeye_57 Start: 46687, Stop: 46872, Start Num: 30

Candidate Starts for Ribeye_57:

(22, 46540), (Start: 30 @46687 has 42 MA's), (33, 46744), (35, 46750), (36, 46753), (37, 46762), (41, 46807), (43, 46822),

Gene: Sanjuju_57 Start: 48385, Stop: 48564, Start Num: 30

Candidate Starts for Sanjuju_57:

(Start: 30 @48385 has 42 MA's), (39, 48478), (40, 48496),

Gene: Saronaya_59 Start: 47035, Stop: 47232, Start Num: 29

Candidate Starts for Saronaya_59:

(11, 46612), (15, 46783), (20, 46837), (24, 46930), (25, 46945), (28, 46978), (29, 47035), (Start: 30 @47047 has 42 MA's), (33, 47104), (37, 47122), (42, 47170),

Gene: SchottB_56 Start: 47239, Stop: 47424, Start Num: 30

Candidate Starts for SchottB_56:

(11, 46804), (15, 46975), (20, 47029), (24, 47122), (25, 47137), (28, 47170), (29, 47227), (Start: 30 @47239 has 42 MA's), (33, 47296), (37, 47314), (42, 47362),

Gene: Sedona_58 Start: 49012, Stop: 49197, Start Num: 30

Candidate Starts for Sedona_58:

(2, 48142), (3, 48169), (16, 48766), (23, 48868), (28, 48940), (Start: 30 @49012 has 42 MA's), (31, 49045), (33, 49069), (37, 49087), (42, 49135), (45, 49180),

Gene: Sitar_60 Start: 49208, Stop: 49393, Start Num: 30

Candidate Starts for Sitar_60:

(16, 48962), (23, 49064), (28, 49136), (Start: 30 @49208 has 42 MA's), (31, 49241), (33, 49265), (37, 49283), (42, 49331), (45, 49376),

Gene: StorminNorm_57 Start: 46689, Stop: 46874, Start Num: 30

Candidate Starts for StorminNorm_57:

(11, 46251), (15, 46422), (20, 46476), (24, 46569), (25, 46584), (28, 46620), (29, 46677), (Start: 30 @46689 has 42 MA's), (33, 46746), (37, 46764), (42, 46812),

Gene: Stultus_56 Start: 47476, Stop: 47655, Start Num: 30

Candidate Starts for Stultus_56:

(8, 46771), (9, 46798), (26, 47395), (Start: 30 @47476 has 42 MA's), (39, 47569), (40, 47587),

Gene: Tangent_60 Start: 47631, Stop: 47810, Start Num: 30

Candidate Starts for Tangent_60:

(Start: 30 @47631 has 42 MA's), (39, 47724), (40, 47742),

Gene: Tangerine_58 Start: 46449, Stop: 46634, Start Num: 30

Candidate Starts for Tangerine_58:

(11, 46014), (15, 46185), (20, 46239), (24, 46332), (25, 46347), (28, 46380), (29, 46437), (Start: 30 @46449 has 42 MA's), (33, 46506), (37, 46524), (42, 46572),

Gene: Thing3_58 Start: 47522, Stop: 47701, Start Num: 30

Candidate Starts for Thing3_58:

(Start: 30 @47522 has 42 MA's), (39, 47615), (40, 47633),

Gene: Vivi2_63 Start: 48686, Stop: 48865, Start Num: 30

Candidate Starts for Vivi2_63:

(Start: 30 @48686 has 42 MA's), (39, 48779), (40, 48797),