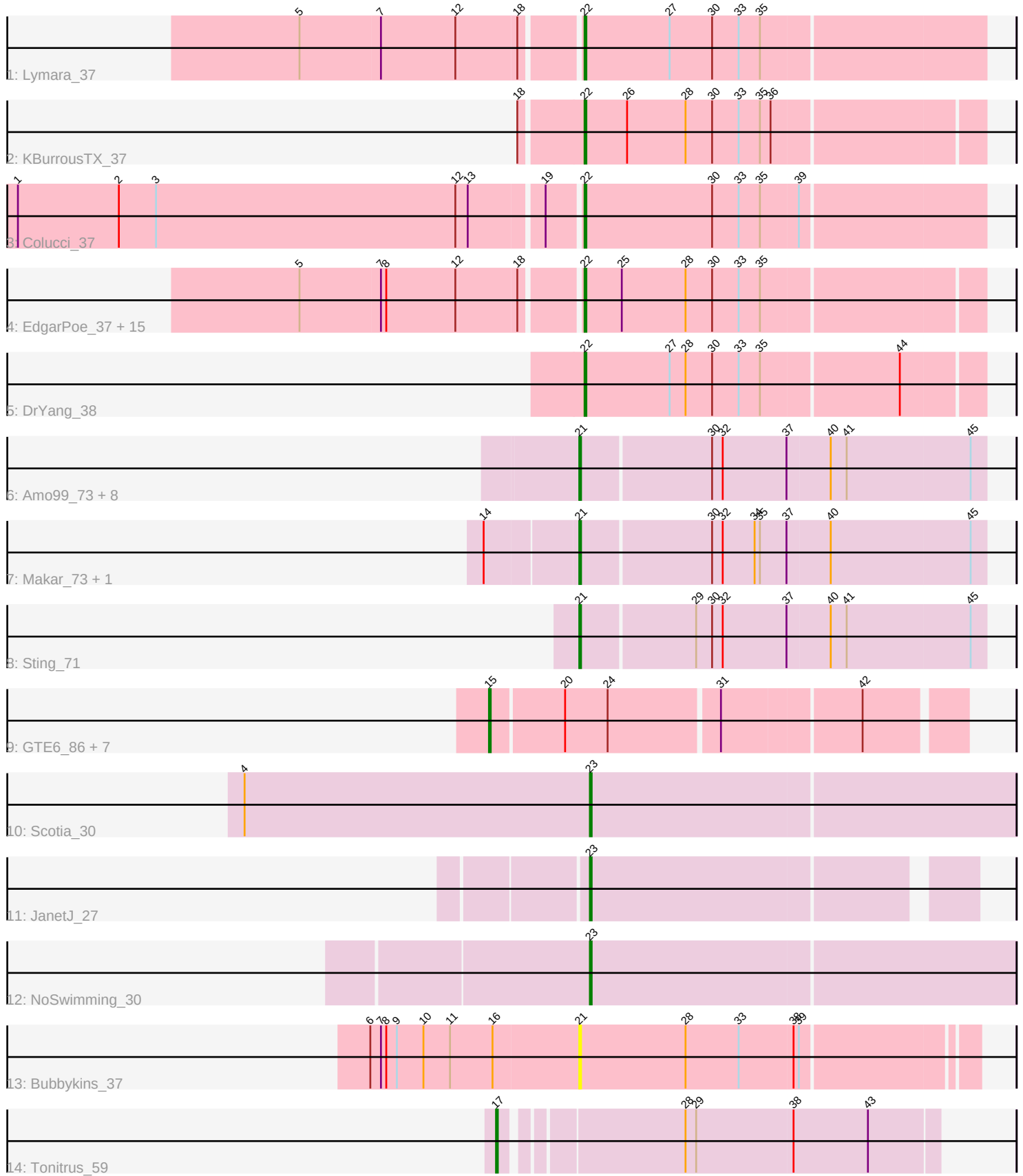


Pham 280584



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 280584 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280584 has 45 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Lymara_37
- Track 2 : KBurroustX_37
- Track 3 : Colucci_37
- Track 4 : EdgarPoe_37, Mordred_37, Linus_37, Tophat_37, JayCookie_37, HumptyDumpty_37, Chipper1996_370, Chocolat_37, MoyaNatalis_37, Conboy_37, RosiePosie_37, Kabreeze_37, Scavito_37, PrincessTrina_37, JaNo_37, Chubster_37
- Track 5 : DrYang_38
- Track 6 : Amo99_73, Jollymon_72, Soos_68, Grumio_72, Purplicious_71, Stillion_72, KingstonB_73, ColdSoup_73, DonTron_72
- Track 7 : Makar_73, Clawz_72
- Track 8 : Sting_71
- Track 9 : GTE6_86, Tiamoceli_80, Chickadee_87, Twonlo_84, EdmundFerry_85, RoadKill_84, Kwekel_87, Dextert_82
- Track 10 : Scotia_30
- Track 11 : JanetJ_27
- Track 12 : NoSwimming_30
- Track 13 : Bubbykins_37
- Track 14 : Tonitrus_59

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

The start number called the most often in the published annotations is 22, it was called in 19 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chipper1996_370, Chocolat_37, Chubster_37, Colucci_37, Conboy_37, DrYang_38, EdgarPoe_37, HumptyDumpty_37, JaNo_37, JayCookie_37, KBurroustX_37, Kabreeze_37, Linus_37, Lymara_37, Mordred_37, MoyaNatalis_37, PrincessTrina_37, RosiePosie_37, Scavito_37, Tophat_37,

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

-

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

- Amo99_73, Bubbykins_37, Chickadee_87, Clawz_72, ColdSoup_73, Dexdert_82, DonTron_72, EdmundFerry_85, GTE6_86, Grumio_72, JanetJ_27, Jollymon_72, KingstonB_73, Kwekel_87, Makar_73, NoSwimming_30, Purplicious_71, RoadKill_84, Scotia_30, Soos_68, Stillion_72, Sting_71, Tiamoceli_80, Tonitrus_59, Twonlo_84,

Summary by start number:

Start 15:

- Found in 8 of 45 (17.8%) of genes in pham
- Manual Annotations of this start: 7 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chickadee_87 (DE3), Dexdert_82 (DE3), EdmundFerry_85 (DE3), GTE6_86 (DE3), Kwekel_87 (DE3), RoadKill_84 (DE3), Tiamoceli_80 (DE3), Twonlo_84 (DE3),

Start 17:

- Found in 1 of 45 (2.2%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tonitrus_59 (singleton),

Start 21:

- Found in 13 of 45 (28.9%) of genes in pham
- Manual Annotations of this start: 5 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amo99_73 (CP), Bubbykins_37 (UNK), Clawz_72 (CP), ColdSoup_73 (CP), DonTron_72 (CP), Grumio_72 (CP), Jollymon_72 (CP), KingstonB_73 (CP), Makar_73 (CP), Purplicious_71 (CP), Soos_68 (CP), Stillion_72 (CP), Sting_71 (CP),

Start 22:

- Found in 20 of 45 (44.4%) of genes in pham
- Manual Annotations of this start: 19 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chipper1996_370 (AR), Chocolat_37 (AR), Chubster_37 (AR), Colucci_37 (AR), Conboy_37 (AR), DrYang_38 (AR), EdgarPoe_37 (AR), HumptyDumpty_37 (AR), JaNo_37 (AR), JayCookie_37 (AR), KBurrousTX_37 (AR), Kabreeze_37 (AR), Linus_37 (AR), Lymara_37 (AR), Mordred_37 (AR), MoyaNatalis_37 (AR), PrincessTrina_37 (AR), RosiePosie_37 (AR), Scavito_37 (AR), Tophat_37 (AR),

Start 23:

- Found in 3 of 45 (6.7%) of genes in pham
- Manual Annotations of this start: 3 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JanetJ_27 (FO), NoSwimming_30 (FO), Scotia_30 (FO),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, UNK, DE3, AR, CP, FO,

Info for manual annotations of cluster AR:

- Start number 22 was manually annotated 19 times for cluster AR.

Info for manual annotations of cluster CP:

- Start number 21 was manually annotated 5 times for cluster CP.

Info for manual annotations of cluster DE3:

- Start number 15 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster FO:

- Start number 23 was manually annotated 3 times for cluster FO.

Gene Information:

Gene: Amo99_73 Start: 48277, Stop: 48501, Start Num: 21

Candidate Starts for Amo99_73:

(Start: 21 @48277 has 5 MA's), (30, 48349), (32, 48355), (37, 48391), (40, 48415), (41, 48424), (45, 48493),

Gene: Bubbykins_37 Start: 28274, Stop: 28059, Start Num: 21

Candidate Starts for Bubbykins_37:

(6, 28391), (7, 28385), (8, 28382), (9, 28376), (10, 28361), (11, 28346), (16, 28322), (Start: 21 @28274 has 5 MA's), (28, 28214), (33, 28184), (38, 28154), (39, 28151),

Gene: Chickadee_87 Start: 56050, Stop: 56301, Start Num: 15

Candidate Starts for Chickadee_87:

(Start: 15 @56050 has 7 MA's), (20, 56089), (24, 56113), (31, 56173), (42, 56248),

Gene: Chipper1996_370 Start: 30385, Stop: 30167, Start Num: 22

Candidate Starts for Chipper1996_370:

(5, 30535), (7, 30490), (8, 30487), (12, 30448), (18, 30415), (Start: 22 @30385 has 19 MA's), (25, 30364), (28, 30328), (30, 30313), (33, 30298), (35, 30286),

Gene: Chocolat_37 Start: 30385, Stop: 30167, Start Num: 22

Candidate Starts for Chocolat_37:

(5, 30535), (7, 30490), (8, 30487), (12, 30448), (18, 30415), (Start: 22 @30385 has 19 MA's), (25, 30364), (28, 30328), (30, 30313), (33, 30298), (35, 30286),

Gene: Chubster_37 Start: 30157, Stop: 29939, Start Num: 22

Candidate Starts for Chubster_37:

(5, 30307), (7, 30262), (8, 30259), (12, 30220), (18, 30187), (Start: 22 @30157 has 19 MA's), (25, 30136), (28, 30100), (30, 30085), (33, 30070), (35, 30058),

Gene: Clawz_72 Start: 48155, Stop: 48379, Start Num: 21

Candidate Starts for Clawz_72:

(14, 48107), (Start: 21 @48155 has 5 MA's), (30, 48227), (32, 48233), (34, 48251), (35, 48254), (37, 48269), (40, 48293), (45, 48371),

Gene: ColdSoup_73 Start: 48358, Stop: 48582, Start Num: 21

Candidate Starts for ColdSoup_73:

(Start: 21 @48358 has 5 MA's), (30, 48430), (32, 48436), (37, 48472), (40, 48496), (41, 48505), (45, 48574),

Gene: Colucci_37 Start: 29963, Stop: 29742, Start Num: 22

Candidate Starts for Colucci_37:

(1, 30272), (2, 30215), (3, 30194), (12, 30026), (13, 30020), (19, 29981), (Start: 22 @29963 has 19 MA's), (30, 29891), (33, 29876), (35, 29864), (39, 29843),

Gene: Conboy_37 Start: 30384, Stop: 30166, Start Num: 22

Candidate Starts for Conboy_37:

(5, 30534), (7, 30489), (8, 30486), (12, 30447), (18, 30414), (Start: 22 @30384 has 19 MA's), (25, 30363), (28, 30327), (30, 30312), (33, 30297), (35, 30285),

Gene: Dexdert_82 Start: 54559, Stop: 54810, Start Num: 15

Candidate Starts for Dexdert_82:

(Start: 15 @54559 has 7 MA's), (20, 54598), (24, 54622), (31, 54682), (42, 54757),

Gene: DonTron_72 Start: 48395, Stop: 48619, Start Num: 21

Candidate Starts for DonTron_72:

(Start: 21 @48395 has 5 MA's), (30, 48467), (32, 48473), (37, 48509), (40, 48533), (41, 48542), (45, 48611),

Gene: DrYang_38 Start: 31723, Stop: 31505, Start Num: 22

Candidate Starts for DrYang_38:

(Start: 22 @31723 has 19 MA's), (27, 31675), (28, 31666), (30, 31651), (33, 31636), (35, 31624), (44, 31549),

Gene: EdgarPoe_37 Start: 30384, Stop: 30166, Start Num: 22

Candidate Starts for EdgarPoe_37:

(5, 30534), (7, 30489), (8, 30486), (12, 30447), (18, 30414), (Start: 22 @30384 has 19 MA's), (25, 30363), (28, 30327), (30, 30312), (33, 30297), (35, 30285),

Gene: EdmundFerry_85 Start: 55426, Stop: 55677, Start Num: 15

Candidate Starts for EdmundFerry_85:

(Start: 15 @55426 has 7 MA's), (20, 55465), (24, 55489), (31, 55549), (42, 55624),

Gene: GTE6_86 Start: 56599, Stop: 56850, Start Num: 15

Candidate Starts for GTE6_86:

(Start: 15 @56599 has 7 MA's), (20, 56638), (24, 56662), (31, 56722), (42, 56797),

Gene: Grumio_72 Start: 47836, Stop: 48060, Start Num: 21

Candidate Starts for Grumio_72:

(Start: 21 @47836 has 5 MA's), (30, 47908), (32, 47914), (37, 47950), (40, 47974), (41, 47983), (45, 48052),

Gene: HumptyDumpty_37 Start: 30383, Stop: 30165, Start Num: 22

Candidate Starts for HumptyDumpty_37:

(5, 30533), (7, 30488), (8, 30485), (12, 30446), (18, 30413), (Start: 22 @30383 has 19 MA's), (25, 30362), (28, 30326), (30, 30311), (33, 30296), (35, 30284),

Gene: JaNo_37 Start: 30383, Stop: 30165, Start Num: 22

Candidate Starts for JaNo_37:

(5, 30533), (7, 30488), (8, 30485), (12, 30446), (18, 30413), (Start: 22 @30383 has 19 MA's), (25, 30362), (28, 30326), (30, 30311), (33, 30296), (35, 30284),

Gene: JanetJ_27 Start: 24007, Stop: 23804, Start Num: 23
Candidate Starts for JanetJ_27:
(Start: 23 @24007 has 3 MA's),

Gene: JayCookie_37 Start: 30387, Stop: 30169, Start Num: 22
Candidate Starts for JayCookie_37:
(5, 30537), (7, 30492), (8, 30489), (12, 30450), (18, 30417), (Start: 22 @30387 has 19 MA's), (25, 30366), (28, 30330), (30, 30315), (33, 30300), (35, 30288),

Gene: Jollymon_72 Start: 48358, Stop: 48582, Start Num: 21
Candidate Starts for Jollymon_72:
(Start: 21 @48358 has 5 MA's), (30, 48430), (32, 48436), (37, 48472), (40, 48496), (41, 48505), (45, 48574),

Gene: KBurrousTX_37 Start: 31486, Stop: 31268, Start Num: 22
Candidate Starts for KBurrousTX_37:
(18, 31513), (Start: 22 @31486 has 19 MA's), (26, 31462), (28, 31429), (30, 31414), (33, 31399), (35, 31387), (36, 31381),

Gene: Kabreeze_37 Start: 30383, Stop: 30165, Start Num: 22
Candidate Starts for Kabreeze_37:
(5, 30533), (7, 30488), (8, 30485), (12, 30446), (18, 30413), (Start: 22 @30383 has 19 MA's), (25, 30362), (28, 30326), (30, 30311), (33, 30296), (35, 30284),

Gene: KingstonB_73 Start: 47833, Stop: 48057, Start Num: 21
Candidate Starts for KingstonB_73:
(Start: 21 @47833 has 5 MA's), (30, 47905), (32, 47911), (37, 47947), (40, 47971), (41, 47980), (45, 48049),

Gene: Kwekel_87 Start: 55963, Stop: 56214, Start Num: 15
Candidate Starts for Kwekel_87:
(Start: 15 @55963 has 7 MA's), (20, 56002), (24, 56026), (31, 56086), (42, 56161),

Gene: Linus_37 Start: 30384, Stop: 30166, Start Num: 22
Candidate Starts for Linus_37:
(5, 30534), (7, 30489), (8, 30486), (12, 30447), (18, 30414), (Start: 22 @30384 has 19 MA's), (25, 30363), (28, 30327), (30, 30312), (33, 30297), (35, 30285),

Gene: Lymara_37 Start: 30202, Stop: 29981, Start Num: 22
Candidate Starts for Lymara_37:
(5, 30352), (7, 30307), (12, 30265), (18, 30232), (Start: 22 @30202 has 19 MA's), (27, 30154), (30, 30130), (33, 30115), (35, 30103),

Gene: Makar_73 Start: 48182, Stop: 48406, Start Num: 21
Candidate Starts for Makar_73:
(14, 48134), (Start: 21 @48182 has 5 MA's), (30, 48254), (32, 48260), (34, 48278), (35, 48281), (37, 48296), (40, 48320), (45, 48398),

Gene: Mordred_37 Start: 30383, Stop: 30165, Start Num: 22
Candidate Starts for Mordred_37:

(5, 30533), (7, 30488), (8, 30485), (12, 30446), (18, 30413), (Start: 22 @30383 has 19 MA's), (25, 30362), (28, 30326), (30, 30311), (33, 30296), (35, 30284),

Gene: MoyaNatalis_37 Start: 30387, Stop: 30169, Start Num: 22

Candidate Starts for MoyaNatalis_37:

(5, 30537), (7, 30492), (8, 30489), (12, 30450), (18, 30417), (Start: 22 @30387 has 19 MA's), (25, 30366), (28, 30330), (30, 30315), (33, 30300), (35, 30288),

Gene: NoSwimming_30 Start: 25642, Stop: 25406, Start Num: 23

Candidate Starts for NoSwimming_30:

(Start: 23 @25642 has 3 MA's),

Gene: PrincessTrina_37 Start: 30387, Stop: 30169, Start Num: 22

Candidate Starts for PrincessTrina_37:

(5, 30537), (7, 30492), (8, 30489), (12, 30450), (18, 30417), (Start: 22 @30387 has 19 MA's), (25, 30366), (28, 30330), (30, 30315), (33, 30300), (35, 30288),

Gene: Purplicious_71 Start: 47601, Stop: 47825, Start Num: 21

Candidate Starts for Purplicious_71:

(Start: 21 @47601 has 5 MA's), (30, 47673), (32, 47679), (37, 47715), (40, 47739), (41, 47748), (45, 47817),

Gene: RoadKill_84 Start: 55492, Stop: 55743, Start Num: 15

Candidate Starts for RoadKill_84:

(Start: 15 @55492 has 7 MA's), (20, 55531), (24, 55555), (31, 55615), (42, 55690),

Gene: RosiePosie_37 Start: 30386, Stop: 30168, Start Num: 22

Candidate Starts for RosiePosie_37:

(5, 30536), (7, 30491), (8, 30488), (12, 30449), (18, 30416), (Start: 22 @30386 has 19 MA's), (25, 30365), (28, 30329), (30, 30314), (33, 30299), (35, 30287),

Gene: Scavito_37 Start: 30384, Stop: 30166, Start Num: 22

Candidate Starts for Scavito_37:

(5, 30534), (7, 30489), (8, 30486), (12, 30447), (18, 30414), (Start: 22 @30384 has 19 MA's), (25, 30363), (28, 30327), (30, 30312), (33, 30297), (35, 30285),

Gene: Scotia_30 Start: 25627, Stop: 25391, Start Num: 23

Candidate Starts for Scotia_30:

(4, 25822), (Start: 23 @25627 has 3 MA's),

Gene: Soos_68 Start: 47562, Stop: 47786, Start Num: 21

Candidate Starts for Soos_68:

(Start: 21 @47562 has 5 MA's), (30, 47634), (32, 47640), (37, 47676), (40, 47700), (41, 47709), (45, 47778),

Gene: Stillion_72 Start: 48159, Stop: 48383, Start Num: 21

Candidate Starts for Stillion_72:

(Start: 21 @48159 has 5 MA's), (30, 48231), (32, 48237), (37, 48273), (40, 48297), (41, 48306), (45, 48375),

Gene: Sting_71 Start: 48001, Stop: 48225, Start Num: 21

Candidate Starts for Sting_71:

(Start: 21 @48001 has 5 MA's), (29, 48064), (30, 48073), (32, 48079), (37, 48115), (40, 48139), (41, 48148), (45, 48217),

Gene: Tiamoceli_80 Start: 55382, Stop: 55633, Start Num: 15

Candidate Starts for Tiamoceli_80:

(Start: 15 @55382 has 7 MA's), (20, 55421), (24, 55445), (31, 55505), (42, 55580),

Gene: Tonitrus_59 Start: 44270, Stop: 44503, Start Num: 17

Candidate Starts for Tonitrus_59:

(Start: 17 @44270 has 1 MA's), (28, 44363), (29, 44369), (38, 44423), (43, 44465),

Gene: Tophat_37 Start: 30385, Stop: 30167, Start Num: 22

Candidate Starts for Tophat_37:

(5, 30535), (7, 30490), (8, 30487), (12, 30448), (18, 30415), (Start: 22 @30385 has 19 MA's), (25, 30364), (28, 30328), (30, 30313), (33, 30298), (35, 30286),

Gene: Twonlo_84 Start: 56083, Stop: 56334, Start Num: 15

Candidate Starts for Twonlo_84:

(Start: 15 @56083 has 7 MA's), (20, 56122), (24, 56146), (31, 56206), (42, 56281),