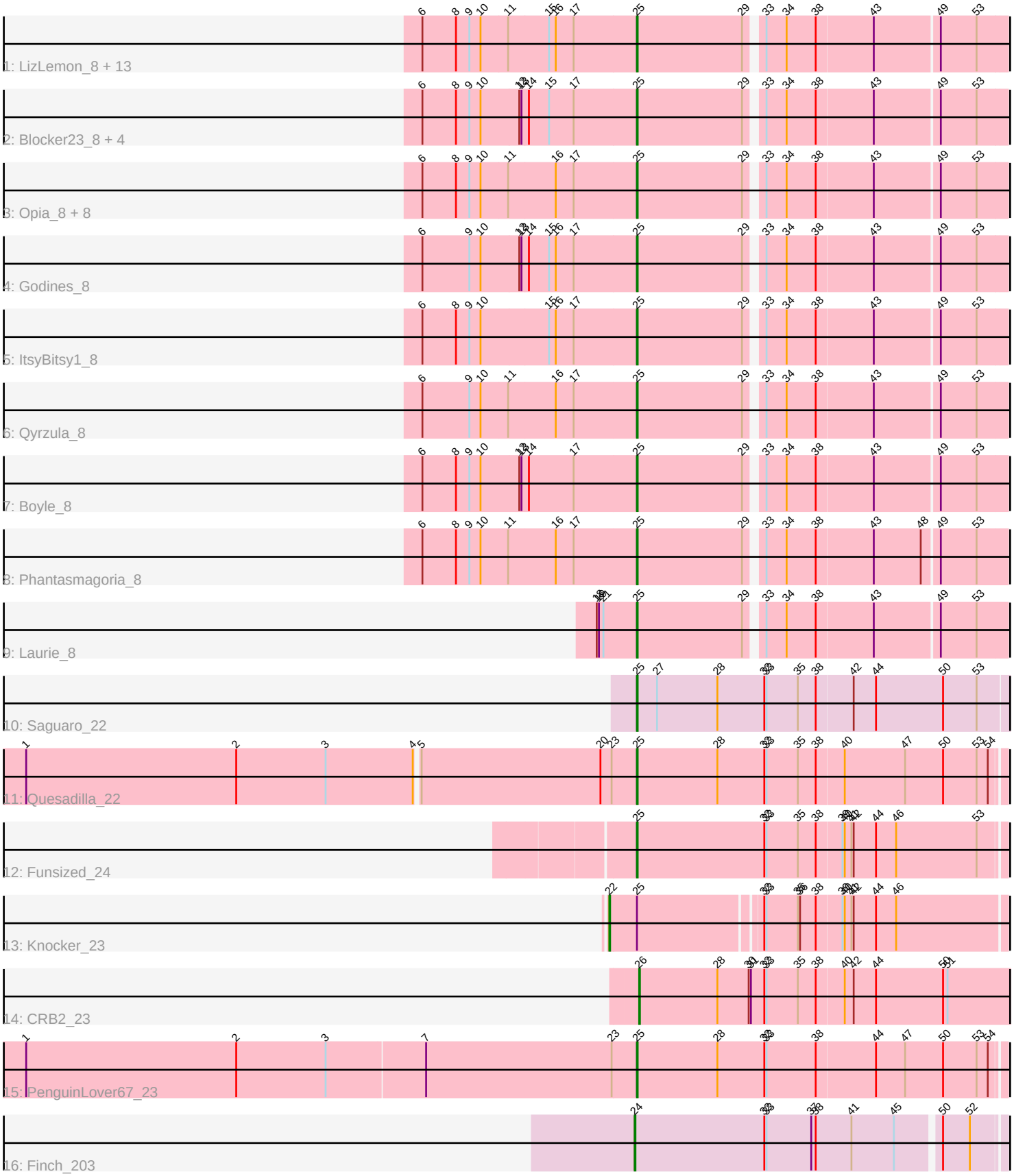
Pham 85896


1: LizLemon_8 + 13
2: Blocker23_8 + 4
3: Opia_8 + 8
4: Godines_8
5: ItsyBitsy1_8
6: Qyrzula_8
7: Boyle_8
8: Phantasmagoria_8
9: Laurie_8
10: Saguaro_22
11: Quesadilla_22
12: Funsized_24
13: Knocker_23
14: CRB2_23
15: PenguinLover67_23
16: Finch_203

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 85896 Report

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

Pham number 85896 has 41 members, 2 are drafts.

Phages represented in each track:
• Track 1 : LizLemon_8, Allegro_8, Glass_8, FrenchFry_8, Kheth_8, Arbiter_8, Rosebush_8, Rhinoforte_8, Eaglehorse_8, Lars_8, Holeinone_8, MasterPo_8, Sabella_8, Kaleb_8
• Track 2 : Blocker23_8, Tres_8, Bananafish_8, Faze9_8, Coffee_8
• Track 3 : Opia_8, Ares_8, Calamitous_8, TA17A_8, Hedgerow_8, Lephleur_8, Tinciduntsolum_9, West99_8, Brownie5_8
• Track 4 : Godines_8
• Track 5 : ItsyBitsy1_8
• Track 6 : Qyrzula_8
• Track 7 : Boyle_8
• Track 8 : Phantasmagoria_8
• Track 9 : Laurie_8
• Track 10 : Saguaro_22
• Track 11 : Quesadilla_22
• Track 12 : Funsized_24
• Track 13 : Knocker_23
• Track 14 : CRB2_23
• Track 15 : PenguinLover67_23
• Track 16 : Finch_203

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

The start number called the most often in the published annotations is 25, it was called in 36 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Allegro_8, Arbiter_8, Ares_8, Bananafish_8, Blocker23_8, Boyle_8, Brownie5_8, Calamitous_8, Coffee_8, Eaglehorse_8, Faze9_8, FrenchFry_8, Funsized_24, Glass_8, Godines_8, Hedgerow_8, Holeinone_8, ItsyBitsy1_8, Kaleb_8, Kheth_8, Lars_8, Laurie_8, Lephleur_8, LizLemon_8, MasterPo_8, Opia_8, PenguinLover67_23, Phantasmagoria_8, Quesadilla_22, Qyrzula_8, Rhinoforte_8, Rosebush_8, Sabella_8, Saguaro_22, TA17A_8, Tinciduntsolum_9, Tres_8, West99_8,

Genes that have the "Most Annotated" start but do not call it:
• Knocker_23,

Genes that do not have the "Most Annotated" start:
• CRB2_23, Finch_203,

Summary by start number:

Start 22:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Knocker_23 (B9),

Start 24:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finch_203 (singleton),

Start 25:
• Found in 39 of 41 (95.1%) of genes in pham
• Manual Annotations of this start: 36 of 39
• Called 97.4% of time when present
• Phage (with cluster) where this start called: Allegro_8 (B2), Arbiter_8 (B2), Ares_8 (B2), Bananafish_8 (B2), Blocker23_8 (B2), Boyle_8 (B2), Brownie5_8 (B2), Calamitous_8 (B2), Coffee_8 (B2), Eaglehorse_8 (B2), Faze9_8 (B2), FrenchFry_8 (B2), Funsized_24 (B9), Glass_8 (B2), Godines_8 (B2), Hedgerow_8 (B2), Holeinone_8 (B2), ItsyBitsy1_8 (B2), Kaleb_8 (B2), Kheth_8 (B2), Lars_8 (B2), Laurie_8 (B2), Lephleur_8 (B2), LizLemon_8 (B2), MasterPo_8 (B2), Opia_8 (B2), PenguinLover67_23 (B9), Phantasmagoria_8 (B2), Quesadilla_22 (B9), Qyrzula_8 (B2), Rhinoforte_8 (B2), Rosebush_8 (B2), Sabella_8 (B2), Saguaro_22 (B7), TA17A_8 (B2), Tinciduntsolum_9 (B2), Tres_8 (B2), West99_8 (B2),

Start 26:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CRB2_23 (B9),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, B7, B9, B2,

Info for manual annotations of cluster B2:
•Start number 25 was manually annotated 32 times for cluster B2.

Info for manual annotations of cluster B7:
•Start number 25 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B9:
•Start number 22 was manually annotated 1 time for cluster B9.
•Start number 25 was manually annotated 3 times for cluster B9.

•Start number 26 was manually annotated 1 time for cluster B9.

Gene Information:

Gene: Allegro_8 Start: 6391, Stop: 5921, Start Num: 25
Candidate Starts for Allegro_8:
(6, 6676), (8, 6631), (9, 6613), (10, 6598), (11, 6562), (15, 6508), (16, 6499), (17, 6475), (Start: 25 @6391 has 36 MA's), (29, 6250), (33, 6232), (34, 6205), (38, 6166), (43, 6091), (49, 6007), (53, 5959),

Gene: Arbiter_8 Start: 6481, Stop: 6011, Start Num: 25
Candidate Starts for Arbiter_8:
(6, 6766), (8, 6721), (9, 6703), (10, 6688), (11, 6652), (15, 6598), (16, 6589), (17, 6565), (Start: 25 @6481 has 36 MA's), (29, 6340), (33, 6322), (34, 6295), (38, 6256), (43, 6181), (49, 6097), (53, 6049),

Gene: Ares_8 Start: 6391, Stop: 5921, Start Num: 25
Candidate Starts for Ares_8:
(6, 6676), (8, 6631), (9, 6613), (10, 6598), (11, 6562), (16, 6499), (17, 6475), (Start: 25 @6391 has 36 MA's), (29, 6250), (33, 6232), (34, 6205), (38, 6166), (43, 6091), (49, 6007), (53, 5959),

Gene: Bananafish_8 Start: 6391, Stop: 5921, Start Num: 25
Candidate Starts for Bananafish_8:
(6, 6676), (8, 6631), (9, 6613), (10, 6598), (12, 6547), (13, 6544), (14, 6535), (15, 6508), (17, 6475), (Start: 25 @6391 has 36 MA's), (29, 6250), (33, 6232), (34, 6205), (38, 6166), (43, 6091), (49, 6007), (53, 5959),

Gene: Blocker23_8 Start: 6508, Stop: 6038, Start Num: 25
Candidate Starts for Blocker23_8:
(6, 6793), (8, 6748), (9, 6730), (10, 6715), (12, 6664), (13, 6661), (14, 6652), (15, 6625), (17, 6592), (Start: 25 @6508 has 36 MA's), (29, 6367), (33, 6349), (34, 6322), (38, 6283), (43, 6208), (49, 6124), (53, 6076),

Gene: Boyle_8 Start: 6508, Stop: 6038, Start Num: 25
Candidate Starts for Boyle_8:
(6, 6793), (8, 6748), (9, 6730), (10, 6715), (12, 6664), (13, 6661), (14, 6652), (17, 6592), (Start: 25 @6508 has 36 MA's), (29, 6367), (33, 6349), (34, 6322), (38, 6283), (43, 6208), (49, 6124), (53, 6076),

Gene: Brownie5_8 Start: 6508, Stop: 6038, Start Num: 25
Candidate Starts for Brownie5_8:
(6, 6793), (8, 6748), (9, 6730), (10, 6715), (11, 6679), (16, 6616), (17, 6592), (Start: 25 @6508 has 36 MA's), (29, 6367), (33, 6349), (34, 6322), (38, 6283), (43, 6208), (49, 6124), (53, 6076),

Gene: CRB2_23 Start: 19293, Stop: 18790, Start Num: 26
Candidate Starts for CRB2_23:
(Start: 26 @19293 has 1 MA's), (28, 19188), (30, 19146), (31, 19143), (32, 19125), (33, 19122), (35, 19080), (38, 19056), (40, 19020), (42, 19008), (44, 18978), (50, 18888), (51, 18882),

Gene: Calamitous_8 Start: 6391, Stop: 5921, Start Num: 25
Candidate Starts for Calamitous_8:
(6, 6676), (8, 6631), (9, 6613), (10, 6598), (11, 6562), (16, 6499), (17, 6475), (Start: 25 @6391 has 36 MA's), (29, 6250), (33, 6232), (34, 6205), (38, 6166), (43, 6091), (49, 6007), (53, 5959),

Gene: Coffee_8 Start: 6508, Stop: 6038, Start Num: 25
Candidate Starts for Coffee_8:
(6, 6793), (8, 6748), (9, 6730), (10, 6715), (12, 6664), (13, 6661), (14, 6652), (15, 6625), (17, 6592), (Start: 25 @6508 has 36 MA's), (29, 6367), (33, 6349), (34, 6322), (38, 6283), (43, 6208), (49, 6124), (53, 6076),

Gene: Eaglehorse_8 Start: 6409, Stop: 5939, Start Num: 25
Candidate Starts for Eaglehorse_8:
(6, 6694), (8, 6649), (9, 6631), (10, 6616), (11, 6580), (15, 6526), (16, 6517), (17, 6493), (Start: 25 @6409 has 36 MA's), (29, 6268), (33, 6250), (34, 6223), (38, 6184), (43, 6109), (49, 6025), (53, 5977),

Gene: Faze9_8 Start: 6508, Stop: 6038, Start Num: 25
Candidate Starts for Faze9_8:
(6, 6793), (8, 6748), (9, 6730), (10, 6715), (12, 6664), (13, 6661), (14, 6652), (15, 6625), (17, 6592), (Start: 25 @6508 has 36 MA's), (29, 6367), (33, 6349), (34, 6322), (38, 6283), (43, 6208), (49, 6124), (53, 6076),

Gene: Finch_203 Start: 119414, Stop: 119893, Start Num: 24
Candidate Starts for Finch_203:
(Start: 24 @119414 has 1 MA's), (32, 119588), (33, 119591), (37, 119651), (38, 119657), (41, 119705), (45, 119762), (50, 119816), (52, 119852),

Gene: FrenchFry_8 Start: 6508, Stop: 6038, Start Num: 25
Candidate Starts for FrenchFry_8:
(6, 6793), (8, 6748), (9, 6730), (10, 6715), (11, 6679), (15, 6625), (16, 6616), (17, 6592), (Start: 25 @6508 has 36 MA's), (29, 6367), (33, 6349), (34, 6322), (38, 6283), (43, 6208), (49, 6124), (53, 6076),

Gene: Funsized_24 Start: 20089, Stop: 19604, Start Num: 25
Candidate Starts for Funsized_24:
(Start: 25 @20089 has 36 MA's), (32, 19918), (33, 19915), (35, 19873), (38, 19849), (39, 19816), (40, 19813), (41, 19804), (42, 19801), (44, 19771), (46, 19744), (53, 19636),

Gene: Glass_8 Start: 6508, Stop: 6038, Start Num: 25
Candidate Starts for Glass_8:
(6, 6793), (8, 6748), (9, 6730), (10, 6715), (11, 6679), (15, 6625), (16, 6616), (17, 6592), (Start: 25 @6508 has 36 MA's), (29, 6367), (33, 6349), (34, 6322), (38, 6283), (43, 6208), (49, 6124), (53, 6076),

Gene: Godines_8 Start: 6391, Stop: 5921, Start Num: 25
Candidate Starts for Godines_8:
(6, 6676), (9, 6613), (10, 6598), (12, 6547), (13, 6544), (14, 6535), (15, 6508), (16, 6499), (17, 6475), (Start: 25 @6391 has 36 MA's), (29, 6250), (33, 6232), (34, 6205), (38, 6166), (43, 6091), (49, 6007), (53, 5959),

Gene: Hedgerow_8 Start: 6490, Stop: 6020, Start Num: 25
Candidate Starts for Hedgerow_8:
(6, 6775), (8, 6730), (9, 6712), (10, 6697), (11, 6661), (16, 6598), (17, 6574), (Start: 25 @6490 has 36 MA's), (29, 6349), (33, 6331), (34, 6304), (38, 6265), (43, 6190), (49, 6106), (53, 6058),

Gene: Holeinone_8 Start: 6391, Stop: 5921, Start Num: 25
Candidate Starts for Holeinone_8:
(6, 6676), (8, 6631), (9, 6613), (10, 6598), (11, 6562), (15, 6508), (16, 6499), (17, 6475), (Start: 25 @6391 has 36 MA's), (29, 6250), (33, 6232), (34, 6205), (38, 6166), (43, 6091), (49, 6007), (53, 5959),

Gene: ItsyBitsy1_8 Start: 6382, Stop: 5912, Start Num: 25
Candidate Starts for ItsyBitsy1_8:
(6, 6667), (8, 6622), (9, 6604), (10, 6589), (15, 6499), (16, 6490), (17, 6466), (Start: 25 @6382 has 36 MA's), (29, 6241), (33, 6223), (34, 6196), (38, 6157), (43, 6082), (49, 5998), (53, 5950),

Gene: Kaleb_8 Start: 6508, Stop: 6038, Start Num: 25
Candidate Starts for Kaleb_8:
(6, 6793), (8, 6748), (9, 6730), (10, 6715), (11, 6679), (15, 6625), (16, 6616), (17, 6592), (Start: 25 @6508 has 36 MA's), (29, 6367), (33, 6349), (34, 6322), (38, 6283), (43, 6208), (49, 6124), (53, 6076),

Gene: Kheth_8 Start: 6391, Stop: 5921, Start Num: 25
Candidate Starts for Kheth_8:
(6, 6676), (8, 6631), (9, 6613), (10, 6598), (11, 6562), (15, 6508), (16, 6499), (17, 6475), (Start: 25 @6391 has 36 MA's), (29, 6250), (33, 6232), (34, 6205), (38, 6166), (43, 6091), (49, 6007), (53, 5959),

Gene: Knocker_23 Start: 20163, Stop: 19654, Start Num: 22
Candidate Starts for Knocker_23:
(Start: 22 @20163 has 1 MA's), (Start: 25 @20127 has 36 MA's), (32, 19971), (33, 19968), (35, 19926), (36, 19923), (38, 19902), (39, 19869), (40, 19866), (41, 19857), (42, 19854), (44, 19824), (46, 19797),

Gene: Lars_8 Start: 6508, Stop: 6038, Start Num: 25
Candidate Starts for Lars_8:
(6, 6793), (8, 6748), (9, 6730), (10, 6715), (11, 6679), (15, 6625), (16, 6616), (17, 6592), (Start: 25 @6508 has 36 MA's), (29, 6367), (33, 6349), (34, 6322), (38, 6283), (43, 6208), (49, 6124), (53, 6076),

Gene: Laurie_8 Start: 6391, Stop: 5921, Start Num: 25
Candidate Starts for Laurie_8:
(18, 6445), (19, 6442), (21, 6436), (Start: 25 @6391 has 36 MA's), (29, 6250), (33, 6232), (34, 6205), (38, 6166), (43, 6091), (49, 6007), (53, 5959),

Gene: Lephleur_8 Start: 6391, Stop: 5921, Start Num: 25
Candidate Starts for Lephleur_8:
(6, 6676), (8, 6631), (9, 6613), (10, 6598), (11, 6562), (16, 6499), (17, 6475), (Start: 25 @6391 has 36 MA's), (29, 6250), (33, 6232), (34, 6205), (38, 6166), (43, 6091), (49, 6007), (53, 5959),

Gene: LizLemon_8 Start: 6508, Stop: 6038, Start Num: 25
Candidate Starts for LizLemon_8:
(6, 6793), (8, 6748), (9, 6730), (10, 6715), (11, 6679), (15, 6625), (16, 6616), (17, 6592), (Start: 25 @6508 has 36 MA's), (29, 6367), (33, 6349), (34, 6322), (38, 6283), (43, 6208), (49, 6124), (53, 6076),

Gene: MasterPo_8 Start: 6391, Stop: 5921, Start Num: 25
Candidate Starts for MasterPo_8:
(6, 6676), (8, 6631), (9, 6613), (10, 6598), (11, 6562), (15, 6508), (16, 6499), (17, 6475), (Start: 25 @6391 has 36 MA's), (29, 6250), (33, 6232), (34, 6205), (38, 6166), (43, 6091), (49, 6007), (53, 5959),

Gene: Opia_8 Start: 6391, Stop: 5921, Start Num: 25
Candidate Starts for Opia_8:
(6, 6676), (8, 6631), (9, 6613), (10, 6598), (11, 6562), (16, 6499), (17, 6475), (Start: 25 @6391 has 36 MA's), (29, 6250), (33, 6232), (34, 6205), (38, 6166), (43, 6091), (49, 6007), (53, 5959),

Gene: PenguinLover67_23 Start: 19199, Stop: 18714, Start Num: 25
Candidate Starts for PenguinLover67_23:

(1, 20012), (2, 19730), (3, 19610), (7, 19481), (23, 19232), (Start: 25 @19199 has 36 MA's), (28, 19091), (32, 19028), (33, 19025), (38, 18959), (44, 18881), (47, 18842), (50, 18791), (53, 18746), (54, 18731),

Gene: Phantasmagoria_8 Start: 6391, Stop: 5921, Start Num: 25
Candidate Starts for Phantasmagoria_8:
(6, 6676), (8, 6631), (9, 6613), (10, 6598), (11, 6562), (16, 6499), (17, 6475), (Start: 25 @6391 has 36 MA's), (29, 6250), (33, 6232), (34, 6205), (38, 6166), (43, 6091), (48, 6028), (49, 6007), (53, 5959),

Gene: Quesadilla_22 Start: 19102, Stop: 18617, Start Num: 25
Candidate Starts for Quesadilla_22:
(1, 19912), (2, 19630), (3, 19510), (4, 19393), (5, 19390), (20, 19150), (23, 19135), (Start: 25 @19102 has 36 MA's), (28, 18994), (32, 18931), (33, 18928), (35, 18886), (38, 18862), (40, 18826), (47, 18745), (50, 18694), (53, 18649), (54, 18634),

Gene: Qyrzula_8 Start: 6481, Stop: 6011, Start Num: 25
Candidate Starts for Qyrzula_8:
(6, 6766), (9, 6703), (10, 6688), (11, 6652), (16, 6589), (17, 6565), (Start: 25 @6481 has 36 MA's), (29, 6340), (33, 6322), (34, 6295), (38, 6256), (43, 6181), (49, 6097), (53, 6049),

Gene: Rhinoforte_8 Start: 6508, Stop: 6038, Start Num: 25
Candidate Starts for Rhinoforte_8:
(6, 6793), (8, 6748), (9, 6730), (10, 6715), (11, 6679), (15, 6625), (16, 6616), (17, 6592), (Start: 25 @6508 has 36 MA's), (29, 6367), (33, 6349), (34, 6322), (38, 6283), (43, 6208), (49, 6124), (53, 6076),

Gene: Rosebush_8 Start: 6508, Stop: 6038, Start Num: 25
Candidate Starts for Rosebush_8:
(6, 6793), (8, 6748), (9, 6730), (10, 6715), (11, 6679), (15, 6625), (16, 6616), (17, 6592), (Start: 25 @6508 has 36 MA's), (29, 6367), (33, 6349), (34, 6322), (38, 6283), (43, 6208), (49, 6124), (53, 6076),

Gene: Sabella_8 Start: 6391, Stop: 5921, Start Num: 25
Candidate Starts for Sabella_8:
(6, 6676), (8, 6631), (9, 6613), (10, 6598), (11, 6562), (15, 6508), (16, 6499), (17, 6475), (Start: 25 @6391 has 36 MA's), (29, 6250), (33, 6232), (34, 6205), (38, 6166), (43, 6091), (49, 6007), (53, 5959),

Gene: Saguaro_22 Start: 18983, Stop: 18477, Start Num: 25
Candidate Starts for Saguaro_22:
(Start: 25 @18983 has 36 MA's), (27, 18956), (28, 18875), (32, 18812), (33, 18809), (35, 18767), (38, 18743), (42, 18695), (44, 18665), (50, 18575), (53, 18530),

Gene: TA17A_8 Start: 6391, Stop: 5921, Start Num: 25
Candidate Starts for TA17A_8:
(6, 6676), (8, 6631), (9, 6613), (10, 6598), (11, 6562), (16, 6499), (17, 6475), (Start: 25 @6391 has 36 MA's), (29, 6250), (33, 6232), (34, 6205), (38, 6166), (43, 6091), (49, 6007), (53, 5959),

Gene: Tinciduntsolum_9 Start: 6507, Stop: 6037, Start Num: 25
Candidate Starts for Tinciduntsolum_9:
(6, 6792), (8, 6747), (9, 6729), (10, 6714), (11, 6678), (16, 6615), (17, 6591), (Start: 25 @6507 has 36 MA's), (29, 6366), (33, 6348), (34, 6321), (38, 6282), (43, 6207), (49, 6123), (53, 6075),

Gene: Tres_8 Start: 6391, Stop: 5921, Start Num: 25
Candidate Starts for Tres_8:

(6, 6676), (8, 6631), (9, 6613), (10, 6598), (12, 6547), (13, 6544), (14, 6535), (15, 6508), (17, 6475), (Start: 25 @6391 has 36 MA's), (29, 6250), (33, 6232), (34, 6205), (38, 6166), (43, 6091), (49, 6007), (53, 5959),

Gene: West99_8 Start: 6508, Stop: 6038, Start Num: 25
Candidate Starts for West99_8:
(6, 6793), (8, 6748), (9, 6730), (10, 6715), (11, 6679), (16, 6616), (17, 6592), (Start: 25 @6508 has 36 MA's), (29, 6367), (33, 6349), (34, 6322), (38, 6283), (43, 6208), (49, 6124), (53, 6076),