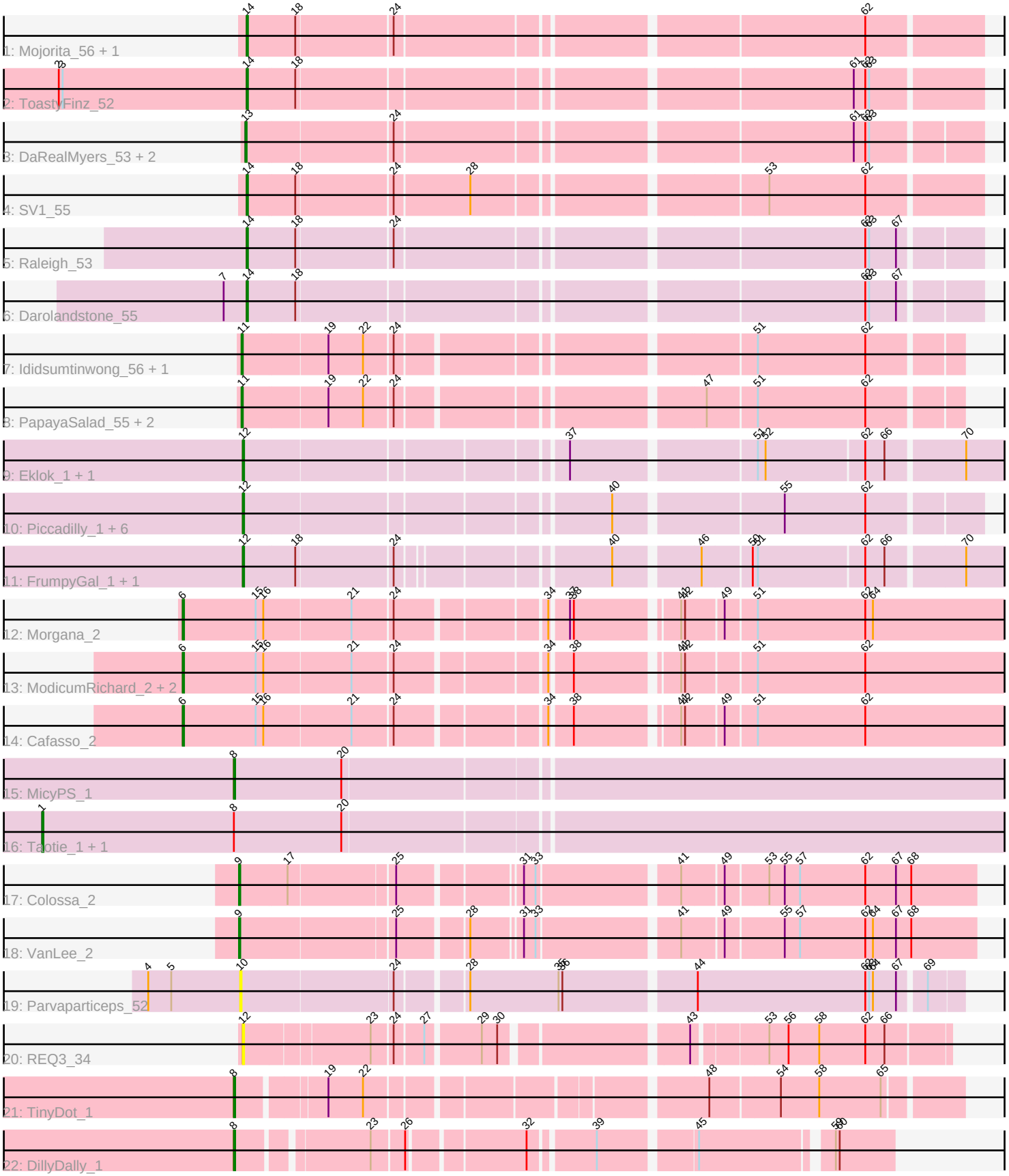
Pham 308862


1: Mojorita_56 + 1
2: ToastyFinz_52
3: DaRealMyers_53 + 2
4: SV1_55
5: Raleigh_53
6: Darolandstone_55
7: Ididsumtinwong_56 + 1
8: PapayaSalad_55 + 2
9: Eklok_1 + 1
10: Piccadilly_1 + 6
11: FrumpyGal_1 + 1
12: Morgana_2
13: ModicumRichard_2 + 2
14: Cafasso_2
15: MicyPS_1
16: Tatie_1 + 1
17: Colossa_2
18: VanLee_2
19: Parvaparticeps_52
20: REQ3_34
21: TinyDot_1
22: DillyDally_1

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 308862 Report

This analysis was run 06/27/26 on database version 652.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 308862 has 39 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Mojorita_56, Picard_56
• Track 2 : ToastyFinz_52
• Track 3 : DaRealMyers_53, SoJo_53, Tubberson_53
• Track 4 : SV1_55
• Track 5 : Raleigh_53
• Track 6 : Darolandstone_55
• Track 7 : Ididsumtinwong_56, Bioscum_55
• Track 8 : PapayaSalad_55, Austintatious_53, Lishka_53
• Track 9 : Eklok_1, AxeJC_1
• Track 10 : Piccadilly_1, Ignacio_1, HFrancette_1, ArizonaGT_1, Vondra_1, Cumberbatch_1, Schlegelian_1
• Track 11 : FrumpyGal_1, Eastland_1
• Track 12 : Morgana_2
• Track 13 : ModicumRichard_2, ObLaDi_2, Aleemily_2
• Track 14 : Cafasso_2
• Track 15 : MicyPS_1
• Track 16 : Taotie_1, PSonyx_1
• Track 17 : Colossa_2
• Track 18 : VanLee_2
• Track 19 : Parvaparticeps_52
• Track 20 : REQ3_34
• Track 21 : TinyDot_1
• Track 22 : DillyDally_1

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

The start number called the most often in the published annotations is 12, it was called in 11 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ArizonaGT_1, AxeJC_1, Cumberbatch_1, Eastland_1, Eklok_1, FrumpyGal_1, HFrancette_1, Ignacio_1, Piccadilly_1, REQ3_34, Schlegelian_1, Vondra_1,

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

Genes that do not have the "Most Annotated" start:
• Aleemily_2, Austintatious_53, Bioscum_55, Cafasso_2, Colossa_2, DaRealMyers_53, Darolandstone_55, DillyDally_1, Ididsumtinwong_56, Lishka_53, MicyPS_1, ModicumRichard_2, Mojorita_56, Morgana_2, ObLaDi_2, PSonyx_1, PapayaSalad_55, Parvaparticeps_52, Picard_56, Raleigh_53, SV1_55, SoJo_53, Taotie_1, TinyDot_1, ToastyFinz_52, Tubberson_53, VanLee_2,

Summary by start number:

Start 1:
• Found in 2 of 39 (5.1%) 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: PSonyx_1 (EQ), Taotie_1 (EQ),

Start 6:
• Found in 5 of 39 (12.8%) 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: Aleemily_2 (DZ), Cafasso_2 (DZ), ModicumRichard_2 (DZ), Morgana_2 (DZ), ObLaDi_2 (DZ),

Start 8:
• Found in 5 of 39 (12.8%) of genes in pham
• Manual Annotations of this start: 3 of 35
• Called 60.0% of time when present
• Phage (with cluster) where this start called: DillyDally_1 (singleton), MicyPS_1 (EQ), TinyDot_1 (singleton),

Start 9:
• Found in 2 of 39 (5.1%) of genes in pham
• Manual Annotations of this start: 2 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Colossa_2 (KA), VanLee_2 (KA),

Start 10:
• Found in 1 of 39 (2.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Parvaparticeps_52 (UNK),

Start 11:
• Found in 5 of 39 (12.8%) 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: Austintatious_53 (BC3), Bioscum_55 (BC3), Ididsumtinwong_56 (BC3), Lishka_53 (BC3), PapayaSalad_55 (BC3),

Start 12:
• Found in 12 of 39 (30.8%) of genes in pham
• Manual Annotations of this start: 11 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArizonaGT_1 (BP), AxeJC_1 (BP), Cumberbatch_1 (BP), Eastland_1 (BP), Eklok_1 (BP), FrumpyGal_1 (BP), HFrancette_1 (BP), Ignacio_1 (BP), Piccadilly_1 (BP), REQ3_34 (singleton), Schlegelian_1 (BP), Vondra_1 (BP),

Start 13:
• Found in 3 of 39 (7.7%) of genes in pham
• Manual Annotations of this start: 2 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DaRealMyers_53 (BC1), SoJo_53 (BC1), Tubberson_53 (BC1),

Start 14:
• Found in 6 of 39 (15.4%) of genes in pham
• Manual Annotations of this start: 6 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Darolandstone_55 (BC2), Mojorita_56 (BC1), Picard_56 (BC1), Raleigh_53 (BC2), SV1_55 (BC1), ToastyFinz_52 (BC1),

Summary by clusters:

There are 9 clusters represented in this pham: singleton, KA, DZ, BP, UNK, EQ, BC1, BC2, BC3,

Info for manual annotations of cluster BC1:
•Start number 13 was manually annotated 2 times for cluster BC1.
•Start number 14 was manually annotated 4 times for cluster BC1.

Info for manual annotations of cluster BC2:
•Start number 14 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:
•Start number 11 was manually annotated 5 times for cluster BC3.

Info for manual annotations of cluster BP:
•Start number 12 was manually annotated 11 times for cluster BP.

Info for manual annotations of cluster DZ:
•Start number 6 was manually annotated 5 times for cluster DZ.

Info for manual annotations of cluster EQ:
•Start number 1 was manually annotated 1 time for cluster EQ.
•Start number 8 was manually annotated 1 time for cluster EQ.

Info for manual annotations of cluster KA:
•Start number 9 was manually annotated 2 times for cluster KA.

Gene Information:

Gene: Aleemily_2 Start: 374, Stop: 967, Start Num: 6
Candidate Starts for Aleemily_2:
(Start: 6 @374 has 5 MA's), (15, 431), (16, 437), (21, 503), (24, 533), (34, 638), (38, 653), (41, 725), (42, 728), (51, 776), (62, 860),

Gene: ArizonaGT_1 Start: 1, Stop: 531, Start Num: 12
Candidate Starts for ArizonaGT_1:
(Start: 12 @1 has 11 MA's), (40, 265), (55, 385), (62, 448),

Gene: Austintatious_53 Start: 35682, Stop: 36194, Start Num: 11
Candidate Starts for Austintatious_53:
(Start: 11 @35682 has 5 MA's), (19, 35745), (22, 35772), (24, 35793), (47, 36006), (51, 36042), (62, 36126),

Gene: AxeJC_1 Start: 1, Stop: 558, Start Num: 12
Candidate Starts for AxeJC_1:
(Start: 12 @1 has 11 MA's), (37, 232), (51, 364), (52, 370), (62, 445), (66, 460), (70, 517),

Gene: Bioscum_55 Start: 37299, Stop: 37811, Start Num: 11
Candidate Starts for Bioscum_55:
(Start: 11 @37299 has 5 MA's), (19, 37362), (22, 37389), (24, 37410), (51, 37659), (62, 37743),

Gene: Cafasso_2 Start: 374, Stop: 967, Start Num: 6
Candidate Starts for Cafasso_2:
(Start: 6 @374 has 5 MA's), (15, 431), (16, 437), (21, 503), (24, 533), (34, 638), (38, 653), (41, 725), (42, 728), (49, 755), (51, 776), (62, 860),

Gene: Colossa_2 Start: 370, Stop: 900, Start Num: 9
Candidate Starts for Colossa_2:
(Start: 9 @370 has 2 MA's), (17, 406), (25, 484), (31, 568), (33, 577), (41, 679), (49, 709), (53, 739), (55, 751), (57, 763), (62, 814), (67, 838), (68, 850),

Gene: Cumberbatch_1 Start: 1, Stop: 531, Start Num: 12
Candidate Starts for Cumberbatch_1:
(Start: 12 @1 has 11 MA's), (40, 265), (55, 385), (62, 448),

Gene: DaRealMyers_53 Start: 38498, Stop: 39028, Start Num: 13
Candidate Starts for DaRealMyers_53:
(Start: 13 @38498 has 2 MA's), (24, 38606), (61, 38936), (62, 38945), (63, 38948),

Gene: Darolandstone_55 Start: 40191, Stop: 40721, Start Num: 14
Candidate Starts for Darolandstone_55:
(7, 40173), (Start: 14 @40191 has 6 MA's), (18, 40227), (62, 40638), (63, 40641), (67, 40662),

Gene: DillyDally_1 Start: 1, Stop: 450, Start Num: 8
Candidate Starts for DillyDally_1:
(Start: 8 @1 has 3 MA's), (23, 94), (26, 118), (32, 199), (39, 244), (45, 313), (59, 406), (60, 409),

Gene: Eastland_1 Start: 1, Stop: 552, Start Num: 12

Candidate Starts for Eastland_1:
(Start: 12 @1 has 11 MA's), (18, 40), (24, 112), (40, 259), (46, 319), (50, 355), (51, 358), (62, 439), (66, 454), (70, 511),

Gene: Eklok_1 Start: 1, Stop: 558, Start Num: 12
Candidate Starts for Eklok_1:
(Start: 12 @1 has 11 MA's), (37, 232), (51, 364), (52, 370), (62, 445), (66, 460), (70, 517),

Gene: FrumpyGal_1 Start: 1, Stop: 552, Start Num: 12
Candidate Starts for FrumpyGal_1:
(Start: 12 @1 has 11 MA's), (18, 40), (24, 112), (40, 259), (46, 319), (50, 355), (51, 358), (62, 439), (66, 454), (70, 511),

Gene: HFrancette_1 Start: 1, Stop: 531, Start Num: 12
Candidate Starts for HFrancette_1:
(Start: 12 @1 has 11 MA's), (40, 265), (55, 385), (62, 448),

Gene: Ididsumtinwong_56 Start: 37286, Stop: 37798, Start Num: 11
Candidate Starts for Ididsumtinwong_56:
(Start: 11 @37286 has 5 MA's), (19, 37349), (22, 37376), (24, 37397), (51, 37646), (62, 37730),

Gene: Ignacio_1 Start: 1, Stop: 531, Start Num: 12
Candidate Starts for Ignacio_1:
(Start: 12 @1 has 11 MA's), (40, 265), (55, 385), (62, 448),

Gene: Lishka_53 Start: 35690, Stop: 36202, Start Num: 11
Candidate Starts for Lishka_53:
(Start: 11 @35690 has 5 MA's), (19, 35753), (22, 35780), (24, 35801), (47, 36014), (51, 36050), (62, 36134),

Gene: MicyPS_1 Start: 1, Stop: 696, Start Num: 8
Candidate Starts for MicyPS_1:
(Start: 8 @1 has 3 MA's), (20, 85),

Gene: ModicumRichard_2 Start: 374, Stop: 967, Start Num: 6
Candidate Starts for ModicumRichard_2:
(Start: 6 @374 has 5 MA's), (15, 431), (16, 437), (21, 503), (24, 533), (34, 638), (38, 653), (41, 725), (42, 728), (51, 776), (62, 860),

Gene: Mojorita_56 Start: 37959, Stop: 38492, Start Num: 14
Candidate Starts for Mojorita_56:
(Start: 14 @37959 has 6 MA's), (18, 37995), (24, 38067), (62, 38406),

Gene: Morgana_2 Start: 379, Stop: 972, Start Num: 6
Candidate Starts for Morgana_2:
(Start: 6 @379 has 5 MA's), (15, 436), (16, 442), (21, 508), (24, 538), (34, 643), (37, 655), (38, 658), (41, 730), (42, 733), (49, 760), (51, 781), (62, 865), (64, 871),

Gene: ObLaDi_2 Start: 374, Stop: 967, Start Num: 6
Candidate Starts for ObLaDi_2:
(Start: 6 @374 has 5 MA's), (15, 431), (16, 437), (21, 503), (24, 533), (34, 638), (38, 653), (41, 725), (42, 728), (51, 776), (62, 860),

Gene: PSonyx_1 Start: 1, Stop: 846, Start Num: 1
Candidate Starts for PSonyx_1:
(Start: 1 @1 has 1 MA's), (Start: 8 @151 has 3 MA's), (20, 235),

Gene: PapayaSalad_55 Start: 37880, Stop: 38392, Start Num: 11
Candidate Starts for PapayaSalad_55:
(Start: 11 @37880 has 5 MA's), (19, 37943), (22, 37970), (24, 37991), (47, 38204), (51, 38240), (62, 38324),

Gene: Parvaparticeps_52 Start: 40205, Stop: 39681, Start Num: 10
Candidate Starts for Parvaparticeps_52:
(4, 40277), (5, 40259), (10, 40205), (24, 40091), (28, 40043), (35, 39974), (36, 39971), (44, 39875), (62, 39749), (63, 39746), (64, 39743), (67, 39725), (69, 39707),

Gene: Picard_56 Start: 38985, Stop: 39518, Start Num: 14
Candidate Starts for Picard_56:
(Start: 14 @38985 has 6 MA's), (18, 39021), (24, 39093), (62, 39432),

Gene: Piccadilly_1 Start: 1, Stop: 531, Start Num: 12
Candidate Starts for Piccadilly_1:
(Start: 12 @1 has 11 MA's), (40, 265), (55, 385), (62, 448),

Gene: REQ3_34 Start: 15686, Stop: 16183, Start Num: 12
Candidate Starts for REQ3_34:
(Start: 12 @15686 has 11 MA's), (23, 15779), (24, 15794), (27, 15815), (29, 15854), (30, 15866), (43, 15995), (53, 16046), (56, 16061), (58, 16085), (62, 16121), (66, 16136),

Gene: Raleigh_53 Start: 40251, Stop: 40781, Start Num: 14
Candidate Starts for Raleigh_53:
(Start: 14 @40251 has 6 MA's), (18, 40287), (24, 40359), (62, 40698), (63, 40701), (67, 40722),

Gene: SV1_55 Start: 37076, Stop: 37609, Start Num: 14
Candidate Starts for SV1_55:
(Start: 14 @37076 has 6 MA's), (18, 37112), (24, 37184), (28, 37241), (53, 37448), (62, 37523),

Gene: Schlegelian_1 Start: 1, Stop: 531, Start Num: 12
Candidate Starts for Schlegelian_1:
(Start: 12 @1 has 11 MA's), (40, 265), (55, 385), (62, 448),

Gene: SoJo_53 Start: 38499, Stop: 39029, Start Num: 13
Candidate Starts for SoJo_53:
(Start: 13 @38499 has 2 MA's), (24, 38607), (61, 38937), (62, 38946), (63, 38949),

Gene: Taotie_1 Start: 1, Stop: 846, Start Num: 1
Candidate Starts for Taotie_1:
(Start: 1 @1 has 1 MA's), (Start: 8 @151 has 3 MA's), (20, 235),

Gene: TinyDot_1 Start: 1, Stop: 510, Start Num: 8
Candidate Starts for TinyDot_1:
(Start: 8 @1 has 3 MA's), (19, 64), (22, 91), (48, 325), (54, 376), (58, 406), (65, 454),

Gene: ToastyFinz_52 Start: 39154, Stop: 39687, Start Num: 14
Candidate Starts for ToastyFinz_52:

(2, 39007), (3, 39010), (Start: 14 @39154 has 6 MA's), (18, 39190), (61, 39592), (62, 39601), (63, 39604),

Gene: Tubberson_53 Start: 38494, Stop: 39024, Start Num: 13
Candidate Starts for Tubberson_53:
(Start: 13 @38494 has 2 MA's), (24, 38602), (61, 38932), (62, 38941), (63, 38944),

Gene: VanLee_2 Start: 366, Stop: 896, Start Num: 9
Candidate Starts for VanLee_2:
(Start: 9 @366 has 2 MA's), (25, 480), (28, 528), (31, 564), (33, 573), (41, 675), (49, 705), (55, 747), (57, 759), (62, 810), (64, 816), (67, 834), (68, 846),

Gene: Vondra_1 Start: 1, Stop: 531, Start Num: 12
Candidate Starts for Vondra_1:
(Start: 12 @1 has 11 MA's), (40, 265), (55, 385), (62, 448),