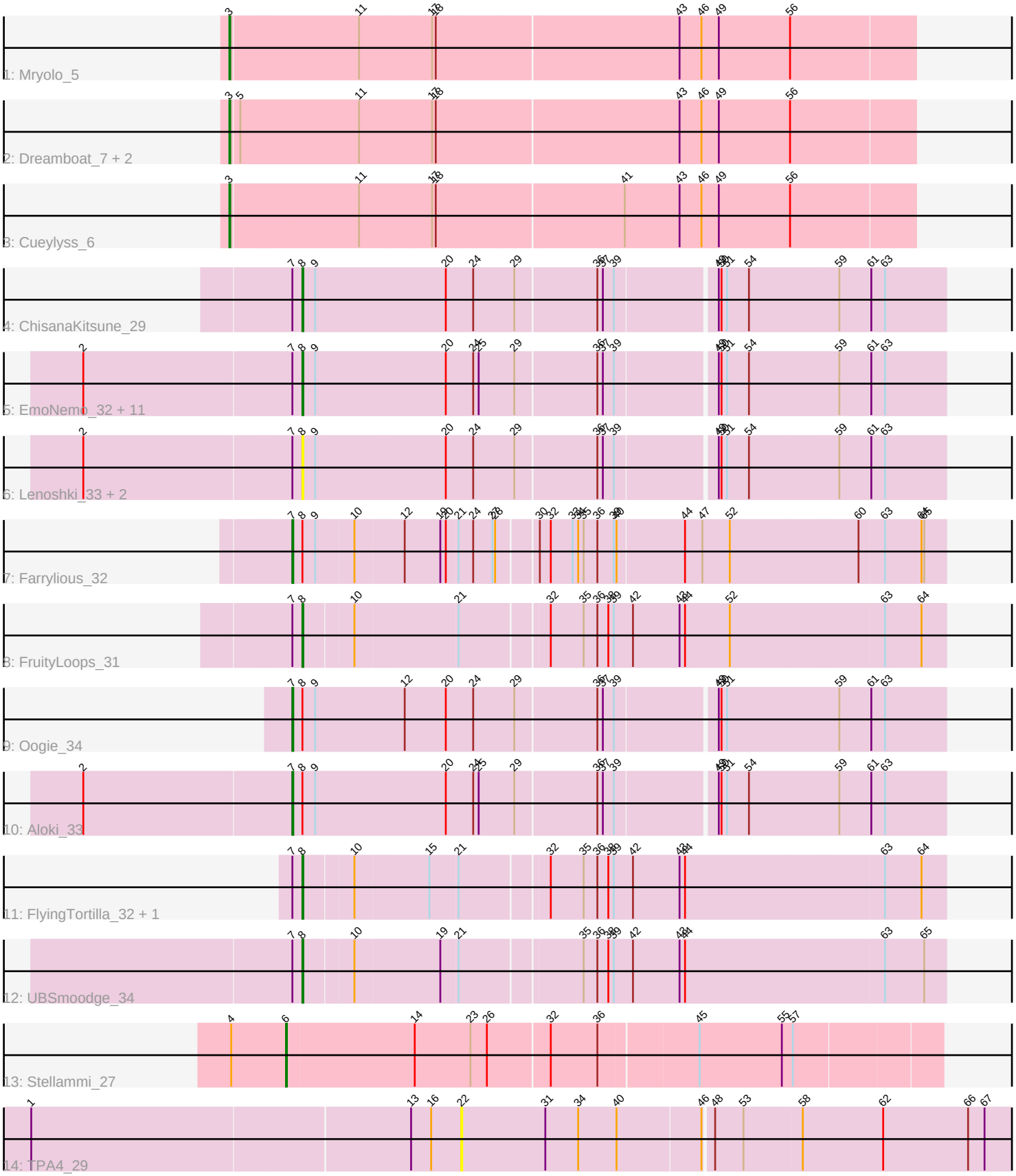
Pham 346018


1: Mryolo_5
2: Dreamboat_7 + 2
3: Cueylyss_6
4: ChisanaKitsune_29
5: EmoNemo_32 + 11
6: Lenoshki_33 + 2
7: Farrylious_32
8: FruityLoops_31
9: Oogie_34
10: Aloki_33
11: FlyingTortilla_32 + 1
12: UBSmoodge_34
13: Stellammi_27
14: TPA4_29

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 346018 Report

This analysis was run 11/14/26 on database version 672.

Pham number 346018 has 30 members, 10 are drafts.

Phages represented in each track:
• Track 1 : Mryolo_5
• Track 2 : Dreamboat_7, PherrisBueller_7, Jorgensen_6
• Track 3 : Cueylyss_6
• Track 4 : ChisanaKitsune_29
• Track 5 : EmoNemo_32, Hanem_33, Kabocha_34, Pakusa_32, Twin_32, Chidiebere_33, MintFritos_32, Amoonguss_32, Toneprano_32, Gray_33, Mikronejon_33, Schomber_32
• Track 6 : Lenoshki_33, Beted_33, Argena_32
• Track 7 : Farrylious_32
• Track 8 : FruityLoops_31
• Track 9 : Oogie_34
• Track 10 : Aloki_33
• Track 11 : FlyingTortilla_32, ScarletRaider_32
• Track 12 : UBSmoodge_34
• Track 13 : Stellammi_27
• Track 14 : TPA4_29

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

The start number called the most often in the published annotations is 8, it was called in 11 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amoonguss_32, Argena_32, Beted_33, Chidiebere_33, ChisanaKitsune_29, EmoNemo_32, FlyingTortilla_32, FruityLoops_31, Gray_33, Hanem_33, Kabocha_34, Lenoshki_33, Mikronejon_33, MintFritos_32, Pakusa_32, ScarletRaider_32, Schomber_32, Toneprano_32, Twin_32, UBSmoodge_34,

Genes that have the "Most Annotated" start but do not call it:
• Aloki_33, Farrylious_32, Oogie_34,

Genes that do not have the "Most Annotated" start:
• Cueylyss_6, Dreamboat_7, Jorgensen_6, Mryolo_5, PherrisBueller_7, Stellammi_27, TPA4_29,

Summary by start number:

Start 3:
• Found in 5 of 30 (16.7%) of genes in pham
• Manual Annotations of this start: 5 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cueylyss_6 (A1), Dreamboat_7 (A1), Jorgensen_6 (A1), Mryolo_5 (A1), PherrisBueller_7 (A1),

Start 6:
• Found in 1 of 30 (3.3%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stellammi_27 (UNK),

Start 7:
• Found in 23 of 30 (76.7%) of genes in pham
• Manual Annotations of this start: 3 of 20
• Called 13.0% of time when present
• Phage (with cluster) where this start called: Aloki_33 (DQ), Farrylious_32 (DQ), Oogie_34 (DQ),

Start 8:
• Found in 23 of 30 (76.7%) of genes in pham
• Manual Annotations of this start: 11 of 20
• Called 87.0% of time when present
• Phage (with cluster) where this start called: Amoonguss_32 (DQ), Argena_32 (DQ), Beted_33 (DQ), Chidiebere_33 (DQ), ChisanaKitsune_29 (DQ), EmoNemo_32 (DQ), FlyingTortilla_32 (DQ), FruityLoops_31 (DQ), Gray_33 (DQ), Hanem_33 (DQ), Kabocha_34 (DQ), Lenoshki_33 (DQ), Mikronejon_33 (DQ), MintFritos_32 (DQ), Pakusa_32 (DQ), ScarletRaider_32 (DQ), Schomber_32 (DQ), Toneprano_32 (DQ), Twin_32 (DQ), UBSmoodge_34 (DQ),

Start 22:
• Found in 1 of 30 (3.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TPA4_29 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: A1, singleton, UNK, DQ,

Info for manual annotations of cluster A1:
•Start number 3 was manually annotated 5 times for cluster A1.

Info for manual annotations of cluster DQ:
•Start number 7 was manually annotated 3 times for cluster DQ.
•Start number 8 was manually annotated 11 times for cluster DQ.

Info for manual annotations of cluster UNK:
•Start number 6 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: Aloki_33 Start: 23072, Stop: 23758, Start Num: 7
Candidate Starts for Aloki_33:
(2, 22850), (Start: 7 @23072 has 3 MA's), (Start: 8 @23081 has 11 MA's), (9, 23093), (20, 23231), (24, 23261), (25, 23267), (29, 23306), (36, 23393), (37, 23399), (39, 23411), (49, 23516), (50, 23519), (51, 23525), (54, 23549), (59, 23645), (61, 23678), (63, 23693),

Gene: Amoonguss_32 Start: 23084, Stop: 23761, Start Num: 8
Candidate Starts for Amoonguss_32:
(2, 22853), (Start: 7 @23075 has 3 MA's), (Start: 8 @23084 has 11 MA's), (9, 23096), (20, 23234), (24, 23264), (25, 23270), (29, 23309), (36, 23396), (37, 23402), (39, 23414), (49, 23519), (50, 23522), (51, 23528), (54, 23552), (59, 23648), (61, 23681), (63, 23696),

Gene: Argena_32 Start: 23081, Stop: 23758, Start Num: 8
Candidate Starts for Argena_32:
(2, 22850), (Start: 7 @23072 has 3 MA's), (Start: 8 @23081 has 11 MA's), (9, 23093), (20, 23231), (24, 23261), (29, 23306), (36, 23393), (37, 23399), (39, 23411), (49, 23516), (50, 23519), (51, 23525), (54, 23549), (59, 23645), (61, 23678), (63, 23693),

Gene: Beted_33 Start: 24758, Stop: 25435, Start Num: 8
Candidate Starts for Beted_33:
(2, 24527), (Start: 7 @24749 has 3 MA's), (Start: 8 @24758 has 11 MA's), (9, 24770), (20, 24908), (24, 24938), (29, 24983), (36, 25070), (37, 25076), (39, 25088), (49, 25193), (50, 25196), (51, 25202), (54, 25226), (59, 25322), (61, 25355), (63, 25370),

Gene: Chidiebere_33 Start: 23081, Stop: 23758, Start Num: 8
Candidate Starts for Chidiebere_33:
(2, 22850), (Start: 7 @23072 has 3 MA's), (Start: 8 @23081 has 11 MA's), (9, 23093), (20, 23231), (24, 23261), (25, 23267), (29, 23306), (36, 23393), (37, 23399), (39, 23411), (49, 23516), (50, 23519), (51, 23525), (54, 23549), (59, 23645), (61, 23678), (63, 23693),

Gene: ChisanaKitsune_29 Start: 21733, Stop: 22410, Start Num: 8
Candidate Starts for ChisanaKitsune_29:
(Start: 7 @21724 has 3 MA's), (Start: 8 @21733 has 11 MA's), (9, 21745), (20, 21883), (24, 21913), (29, 21958), (36, 22045), (37, 22051), (39, 22063), (49, 22168), (50, 22171), (51, 22177), (54, 22201), (59, 22297), (61, 22330), (63, 22345),

Gene: Cueylyss_6 Start: 3458, Stop: 4186, Start Num: 3
Candidate Starts for Cueylyss_6:
(Start: 3 @3458 has 5 MA's), (11, 3593), (17, 3671), (18, 3674), (41, 3872), (43, 3932), (46, 3956), (49, 3974), (56, 4052),

Gene: Dreamboat_7 Start: 3199, Stop: 3927, Start Num: 3
Candidate Starts for Dreamboat_7:
(Start: 3 @3199 has 5 MA's), (5, 3208), (11, 3334), (17, 3412), (18, 3415), (43, 3673), (46, 3697), (49, 3715), (56, 3793),

Gene: EmoNemo_32 Start: 23081, Stop: 23758, Start Num: 8
Candidate Starts for EmoNemo_32:

(2, 22850), (Start: 7 @23072 has 3 MA's), (Start: 8 @23081 has 11 MA's), (9, 23093), (20, 23231), (24, 23261), (25, 23267), (29, 23306), (36, 23393), (37, 23399), (39, 23411), (49, 23516), (50, 23519), (51, 23525), (54, 23549), (59, 23645), (61, 23678), (63, 23693),

Gene: Farrylious_32 Start: 22825, Stop: 23502, Start Num: 7
Candidate Starts for Farrylious_32:
(Start: 7 @22825 has 3 MA's), (Start: 8 @22834 has 11 MA's), (9, 22846), (10, 22882), (12, 22933), (19, 22972), (20, 22978), (21, 22990), (24, 23005), (27, 23026), (28, 23029), (30, 23068), (32, 23080), (33, 23104), (34, 23110), (35, 23116), (36, 23131), (39, 23149), (40, 23152), (44, 23224), (47, 23242), (52, 23272), (60, 23410), (63, 23437), (64, 23476), (65, 23479),

Gene: FlyingTortilla_32 Start: 25962, Stop: 26633, Start Num: 8
Candidate Starts for FlyingTortilla_32:
(Start: 7 @25953 has 3 MA's), (Start: 8 @25962 has 11 MA's), (10, 26010), (15, 26088), (21, 26118), (32, 26208), (35, 26244), (36, 26259), (38, 26271), (39, 26277), (42, 26298), (43, 26349), (44, 26355), (63, 26568), (64, 26607),

Gene: FruityLoops_31 Start: 25965, Stop: 26636, Start Num: 8
Candidate Starts for FruityLoops_31:
(Start: 7 @25956 has 3 MA's), (Start: 8 @25965 has 11 MA's), (10, 26013), (21, 26121), (32, 26211), (35, 26247), (36, 26262), (38, 26274), (39, 26280), (42, 26301), (43, 26352), (44, 26358), (52, 26406), (63, 26571), (64, 26610),

Gene: Gray_33 Start: 23081, Stop: 23758, Start Num: 8
Candidate Starts for Gray_33:
(2, 22850), (Start: 7 @23072 has 3 MA's), (Start: 8 @23081 has 11 MA's), (9, 23093), (20, 23231), (24, 23261), (25, 23267), (29, 23306), (36, 23393), (37, 23399), (39, 23411), (49, 23516), (50, 23519), (51, 23525), (54, 23549), (59, 23645), (61, 23678), (63, 23693),

Gene: Hanem_33 Start: 23081, Stop: 23758, Start Num: 8
Candidate Starts for Hanem_33:
(2, 22850), (Start: 7 @23072 has 3 MA's), (Start: 8 @23081 has 11 MA's), (9, 23093), (20, 23231), (24, 23261), (25, 23267), (29, 23306), (36, 23393), (37, 23399), (39, 23411), (49, 23516), (50, 23519), (51, 23525), (54, 23549), (59, 23645), (61, 23678), (63, 23693),

Gene: Jorgensen_6 Start: 3104, Stop: 3832, Start Num: 3
Candidate Starts for Jorgensen_6:
(Start: 3 @3104 has 5 MA's), (5, 3113), (11, 3239), (17, 3317), (18, 3320), (43, 3578), (46, 3602), (49, 3620), (56, 3698),

Gene: Kabocha_34 Start: 23894, Stop: 24571, Start Num: 8
Candidate Starts for Kabocha_34:
(2, 23663), (Start: 7 @23885 has 3 MA's), (Start: 8 @23894 has 11 MA's), (9, 23906), (20, 24044), (24, 24074), (25, 24080), (29, 24119), (36, 24206), (37, 24212), (39, 24224), (49, 24329), (50, 24332), (51, 24338), (54, 24362), (59, 24458), (61, 24491), (63, 24506),

Gene: Lenoshki_33 Start: 24758, Stop: 25435, Start Num: 8
Candidate Starts for Lenoshki_33:
(2, 24527), (Start: 7 @24749 has 3 MA's), (Start: 8 @24758 has 11 MA's), (9, 24770), (20, 24908), (24, 24938), (29, 24983), (36, 25070), (37, 25076), (39, 25088), (49, 25193), (50, 25196), (51, 25202), (54, 25226), (59, 25322), (61, 25355), (63, 25370),

Gene: Mikronejon_33 Start: 23081, Stop: 23758, Start Num: 8

Candidate Starts for Mikronejon_33:
(2, 22850), (Start: 7 @23072 has 3 MA's), (Start: 8 @23081 has 11 MA's), (9, 23093), (20, 23231), (24, 23261), (25, 23267), (29, 23306), (36, 23393), (37, 23399), (39, 23411), (49, 23516), (50, 23519), (51, 23525), (54, 23549), (59, 23645), (61, 23678), (63, 23693),

Gene: MintFritos_32 Start: 23081, Stop: 23758, Start Num: 8
Candidate Starts for MintFritos_32:
(2, 22850), (Start: 7 @23072 has 3 MA's), (Start: 8 @23081 has 11 MA's), (9, 23093), (20, 23231), (24, 23261), (25, 23267), (29, 23306), (36, 23393), (37, 23399), (39, 23411), (49, 23516), (50, 23519), (51, 23525), (54, 23549), (59, 23645), (61, 23678), (63, 23693),

Gene: Mryolo_5 Start: 3095, Stop: 3823, Start Num: 3
Candidate Starts for Mryolo_5:
(Start: 3 @3095 has 5 MA's), (11, 3230), (17, 3308), (18, 3311), (43, 3569), (46, 3593), (49, 3611), (56, 3689),

Gene: Oogie_34 Start: 24775, Stop: 25461, Start Num: 7
Candidate Starts for Oogie_34:
(Start: 7 @24775 has 3 MA's), (Start: 8 @24784 has 11 MA's), (9, 24796), (12, 24889), (20, 24934), (24, 24964), (29, 25009), (36, 25096), (37, 25102), (39, 25114), (49, 25219), (50, 25222), (51, 25228), (59, 25348), (61, 25381), (63, 25396),

Gene: Pakusa_32 Start: 22823, Stop: 23500, Start Num: 8
Candidate Starts for Pakusa_32:
(2, 22592), (Start: 7 @22814 has 3 MA's), (Start: 8 @22823 has 11 MA's), (9, 22835), (20, 22973), (24, 23003), (25, 23009), (29, 23048), (36, 23135), (37, 23141), (39, 23153), (49, 23258), (50, 23261), (51, 23267), (54, 23291), (59, 23387), (61, 23420), (63, 23435),

Gene: PherrisBueller_7 Start: 3199, Stop: 3927, Start Num: 3
Candidate Starts for PherrisBueller_7:
(Start: 3 @3199 has 5 MA's), (5, 3208), (11, 3334), (17, 3412), (18, 3415), (43, 3673), (46, 3697), (49, 3715), (56, 3793),

Gene: ScarletRaider_32 Start: 25989, Stop: 26660, Start Num: 8
Candidate Starts for ScarletRaider_32:
(Start: 7 @25980 has 3 MA's), (Start: 8 @25989 has 11 MA's), (10, 26037), (15, 26115), (21, 26145), (32, 26235), (35, 26271), (36, 26286), (38, 26298), (39, 26304), (42, 26325), (43, 26376), (44, 26382), (63, 26595), (64, 26634),

Gene: Schomber_32 Start: 22831, Stop: 23508, Start Num: 8
Candidate Starts for Schomber_32:
(2, 22600), (Start: 7 @22822 has 3 MA's), (Start: 8 @22831 has 11 MA's), (9, 22843), (20, 22981), (24, 23011), (25, 23017), (29, 23056), (36, 23143), (37, 23149), (39, 23161), (49, 23266), (50, 23269), (51, 23275), (54, 23299), (59, 23395), (61, 23428), (63, 23443),

Gene: Stellammi_27 Start: 24022, Stop: 24714, Start Num: 6
Candidate Starts for Stellammi_27:
(4, 23962), (Start: 6 @24022 has 1 MA's), (14, 24160), (23, 24220), (26, 24238), (32, 24304), (36, 24355), (45, 24457), (55, 24547), (57, 24559),

Gene: TPA4_29 Start: 26891, Stop: 27490, Start Num: 22
Candidate Starts for TPA4_29:

(1, 26429), (13, 26837), (16, 26858), (22, 26891), (31, 26981), (34, 27017), (40, 27059), (46, 27149), (48, 27158), (53, 27188), (58, 27251), (62, 27338), (66, 27431), (67, 27449),

Gene: Toneprano_32 Start: 23081, Stop: 23758, Start Num: 8
Candidate Starts for Toneprano_32:
(2, 22850), (Start: 7 @23072 has 3 MA's), (Start: 8 @23081 has 11 MA's), (9, 23093), (20, 23231), (24, 23261), (25, 23267), (29, 23306), (36, 23393), (37, 23399), (39, 23411), (49, 23516), (50, 23519), (51, 23525), (54, 23549), (59, 23645), (61, 23678), (63, 23693),

Gene: Twin_32 Start: 23081, Stop: 23758, Start Num: 8
Candidate Starts for Twin_32:
(2, 22850), (Start: 7 @23072 has 3 MA's), (Start: 8 @23081 has 11 MA's), (9, 23093), (20, 23231), (24, 23261), (25, 23267), (29, 23306), (36, 23393), (37, 23399), (39, 23411), (49, 23516), (50, 23519), (51, 23525), (54, 23549), (59, 23645), (61, 23678), (63, 23693),

Gene: UBSmoodge_34 Start: 24908, Stop: 25579, Start Num: 8
Candidate Starts for UBSmoodge_34:
(Start: 7 @24899 has 3 MA's), (Start: 8 @24908 has 11 MA's), (10, 24956), (19, 25046), (21, 25064), (35, 25190), (36, 25205), (38, 25217), (39, 25223), (42, 25244), (43, 25295), (44, 25301), (63, 25514), (65, 25556),