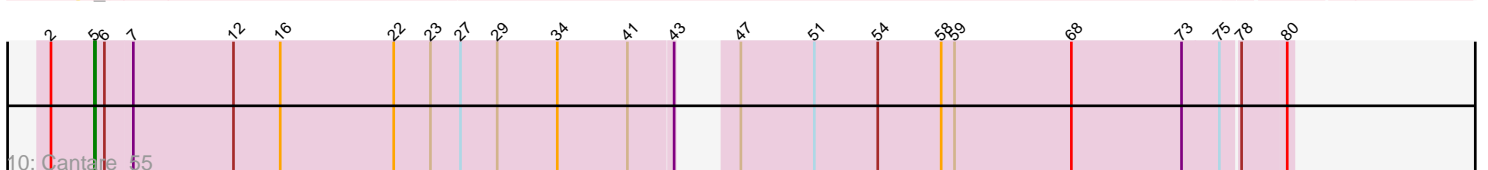
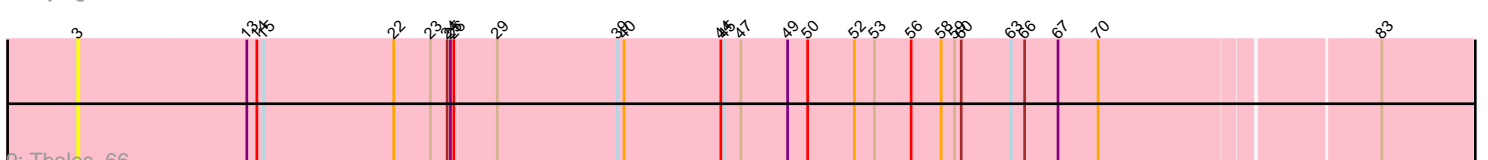
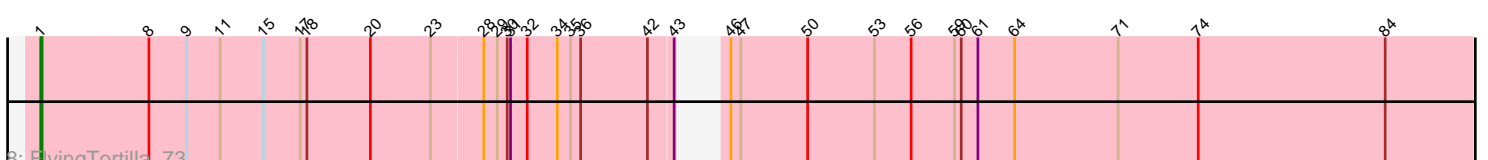
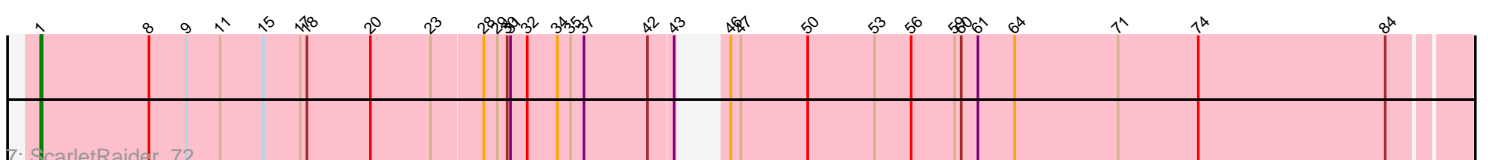
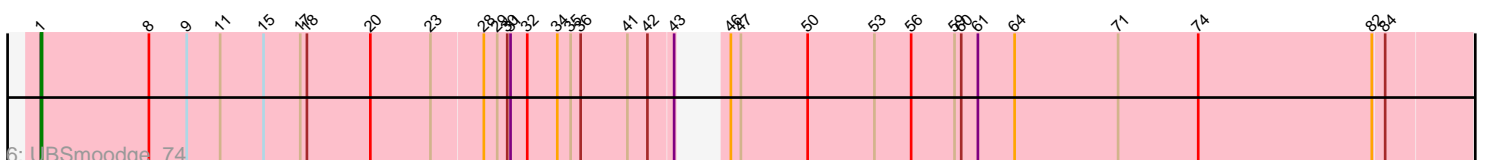
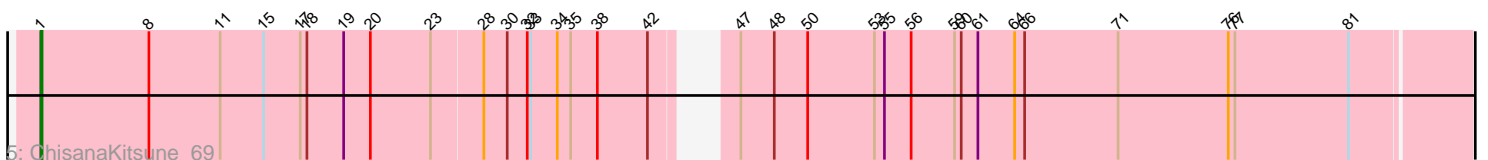
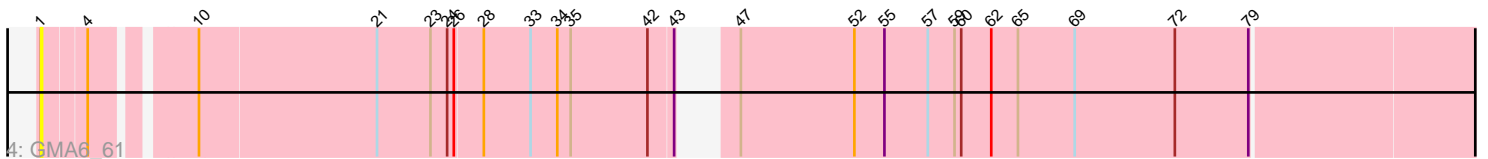
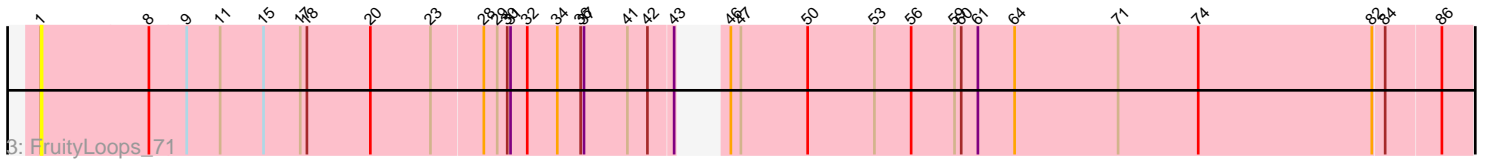
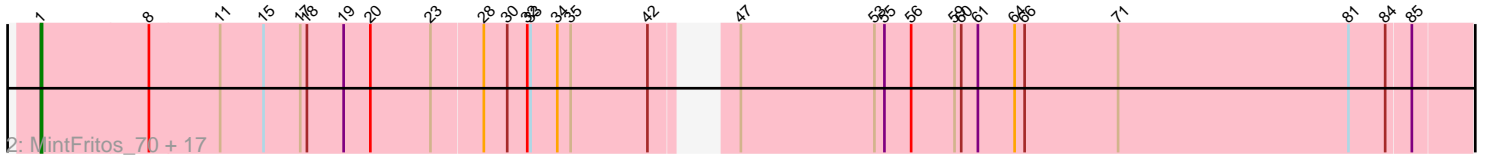
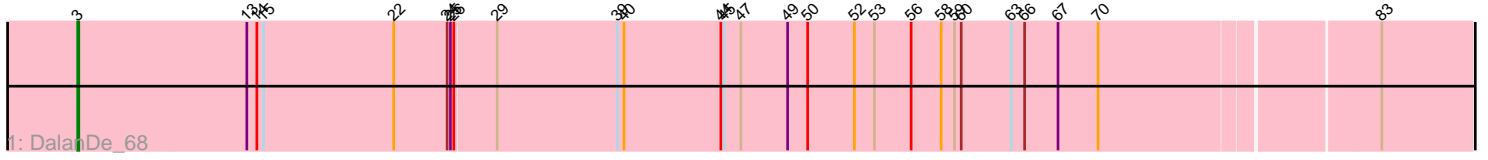


Pham 309092



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 309092 Report

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

Pham number 309092 has 27 members, 14 are drafts.

Phages represented in each track:

- Track 1 : DalanDe_68
- Track 2 : MintFritos_70, Amoonguss_70, Schomber_70, EmoNemo_69, Lenoshki_72, Farrylious_70, Hanem_71, Mikronejon_69, Kabocha_73, Alok_i_72, Oogie_73, Pakusa_69, Gray_72, Argena_70, Twin_69, Toneprano_70, Beted_72, Chidiebere_72
- Track 3 : FruityLoops_71
- Track 4 : GMA6_61
- Track 5 : ChisanaKitsune_69
- Track 6 : UBSmoodge_74
- Track 7 : ScarletRaider_72
- Track 8 : FlyingTortilla_73
- Track 9 : Thales_66
- Track 10 : Cantare_55

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

The start number called the most often in the published annotations is 1, it was called in 11 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alok_i_72, Amoonguss_70, Argena_70, Beted_72, Chidiebere_72, ChisanaKitsune_69, EmoNemo_69, Farrylious_70, FlyingTortilla_73, FruityLoops_71, GMA6_61, Gray_72, Hanem_71, Kabocha_73, Lenoshki_72, Mikronejon_69, MintFritos_70, Oogie_73, Pakusa_69, ScarletRaider_72, Schomber_70, Toneprano_70, Twin_69, UBSmoodge_74,

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

-

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

- Cantare_55, DalanDe_68, Thales_66,

Summary by start number:

Start 1:

- Found in 24 of 27 (88.9%) of genes in pham
- Manual Annotations of this start: 11 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aloki_72 (DQ), Amoonguss_70 (DQ), Argena_70 (DQ), Beted_72 (DQ), Chidiebere_72 (DQ), ChisanaKitsune_69 (DQ), EmoNemo_69 (DQ), Farrylious_70 (DQ), FlyingTortilla_73 (DQ), FruityLoops_71 (DQ), GMA6_61 (DQ), Gray_72 (DQ), Hanem_71 (DQ), Kabocha_73 (DQ), Lenoshki_72 (DQ), Mikronejon_69 (DQ), MintFritos_70 (DQ), Oogie_73 (DQ), Pakusa_69 (DQ), ScarletRaider_72 (DQ), Schomber_70 (DQ), Toneprano_70 (DQ), Twin_69 (DQ), UBSmoodge_74 (DQ),

Start 3:

- Found in 2 of 27 (7.4%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DalanDe_68 (DQ), Thales_66 (DQ),

Start 5:

- Found in 1 of 27 (3.7%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cantare_55 (singleton),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, DQ,

Info for manual annotations of cluster DQ:

- Start number 1 was manually annotated 11 times for cluster DQ.
- Start number 3 was manually annotated 1 time for cluster DQ.

Gene Information:

Gene: Aloki_72 Start: 57172, Stop: 58401, Start Num: 1

Candidate Starts for Aloki_72:

(Start: 1 @57172 has 11 MA's), (8, 57268), (11, 57331), (15, 57370), (17, 57403), (18, 57409), (19, 57442), (20, 57466), (23, 57520), (28, 57565), (30, 57586), (32, 57604), (33, 57607), (34, 57631), (35, 57643), (42, 57712), (47, 57751), (53, 57871), (55, 57880), (56, 57904), (59, 57943), (60, 57949), (61, 57964), (64, 57997), (66, 58006), (71, 58090), (81, 58297), (84, 58330), (85, 58351),

Gene: Amoonguss_70 Start: 57157, Stop: 58386, Start Num: 1

Candidate Starts for Amoonguss_70:

(Start: 1 @57157 has 11 MA's), (8, 57253), (11, 57316), (15, 57355), (17, 57388), (18, 57394), (19, 57427), (20, 57451), (23, 57505), (28, 57550), (30, 57571), (32, 57589), (33, 57592), (34, 57616), (35, 57628), (42, 57697), (47, 57736), (53, 57856), (55, 57865), (56, 57889), (59, 57928), (60, 57934), (61, 57949), (64, 57982), (66, 57991), (71, 58075), (81, 58282), (84, 58315), (85, 58336),

Gene: Argena_70 Start: 57169, Stop: 58398, Start Num: 1

Candidate Starts for Argena_70:

(Start: 1 @57169 has 11 MA's), (8, 57265), (11, 57328), (15, 57367), (17, 57400), (18, 57406), (19, 57439), (20, 57463), (23, 57517), (28, 57562), (30, 57583), (32, 57601), (33, 57604), (34, 57628), (35, 57640), (42, 57709), (47, 57748), (53, 57868), (55, 57877), (56, 57901), (59, 57940), (60, 57946), (61, 57961), (64, 57994), (66, 58003), (71, 58087), (81, 58294), (84, 58327), (85, 58348),

Gene: Beted_72 Start: 59298, Stop: 60527, Start Num: 1

Candidate Starts for Beted_72:

(Start: 1 @59298 has 11 MA's), (8, 59394), (11, 59457), (15, 59496), (17, 59529), (18, 59535), (19, 59568), (20, 59592), (23, 59646), (28, 59691), (30, 59712), (32, 59730), (33, 59733), (34, 59757), (35, 59769), (42, 59838), (47, 59877), (53, 59997), (55, 60006), (56, 60030), (59, 60069), (60, 60075), (61, 60090), (64, 60123), (66, 60132), (71, 60216), (81, 60423), (84, 60456), (85, 60477),

Gene: Cantare_55 Start: 47515, Stop: 48537, Start Num: 5

Candidate Starts for Cantare_55:

(2, 47476), (Start: 5 @47515 has 1 MA's), (6, 47524), (7, 47548), (12, 47638), (16, 47680), (22, 47782), (23, 47815), (27, 47842), (29, 47875), (34, 47929), (41, 47992), (43, 48031), (47, 48049), (51, 48115), (54, 48172), (58, 48229), (59, 48241), (68, 48346), (73, 48445), (75, 48478), (78, 48493), (80, 48532),

Gene: Chidiebere_72 Start: 57705, Stop: 58934, Start Num: 1

Candidate Starts for Chidiebere_72:

(Start: 1 @57705 has 11 MA's), (8, 57801), (11, 57864), (15, 57903), (17, 57936), (18, 57942), (19, 57975), (20, 57999), (23, 58053), (28, 58098), (30, 58119), (32, 58137), (33, 58140), (34, 58164), (35, 58176), (42, 58245), (47, 58284), (53, 58404), (55, 58413), (56, 58437), (59, 58476), (60, 58482), (61, 58497), (64, 58530), (66, 58539), (71, 58623), (81, 58830), (84, 58863), (85, 58884),

Gene: ChisanaKitsune_69 Start: 56850, Stop: 58076, Start Num: 1

Candidate Starts for ChisanaKitsune_69:

(Start: 1 @56850 has 11 MA's), (8, 56946), (11, 57009), (15, 57048), (17, 57081), (18, 57087), (19, 57120), (20, 57144), (23, 57198), (28, 57243), (30, 57264), (32, 57282), (33, 57285), (34, 57309), (35, 57321), (38, 57345), (42, 57390), (47, 57429), (48, 57459), (50, 57489), (53, 57549), (55, 57558), (56, 57582), (59, 57621), (60, 57627), (61, 57642), (64, 57675), (66, 57684), (71, 57768), (76, 57867), (77, 57873), (81, 57975),

Gene: DalanDe_68 Start: 60073, Stop: 61299, Start Num: 3

Candidate Starts for DalanDe_68:

(Start: 3 @60073 has 1 MA's), (13, 60220), (14, 60229), (15, 60235), (22, 60352), (24, 60400), (25, 60403), (26, 60406), (29, 60442), (39, 60550), (40, 60556), (44, 60643), (45, 60646), (47, 60661), (49, 60703), (50, 60721), (52, 60763), (53, 60781), (56, 60814), (58, 60841), (59, 60853), (60, 60859), (63, 60904), (66, 60916), (67, 60946), (70, 60982), (83, 61219),

Gene: EmoNemo_69 Start: 57172, Stop: 58401, Start Num: 1

Candidate Starts for EmoNemo_69:

(Start: 1 @57172 has 11 MA's), (8, 57268), (11, 57331), (15, 57370), (17, 57403), (18, 57409), (19, 57442), (20, 57466), (23, 57520), (28, 57565), (30, 57586), (32, 57604), (33, 57607), (34, 57631), (35, 57643), (42, 57712), (47, 57751), (53, 57871), (55, 57880), (56, 57904), (59, 57943), (60, 57949), (61, 57964), (64, 57997), (66, 58006), (71, 58090), (81, 58297), (84, 58330), (85, 58351),

Gene: Farrylious_70 Start: 56933, Stop: 58162, Start Num: 1

Candidate Starts for Farrylious_70:

(Start: 1 @56933 has 11 MA's), (8, 57029), (11, 57092), (15, 57131), (17, 57164), (18, 57170), (19, 57203), (20, 57227), (23, 57281), (28, 57326), (30, 57347), (32, 57365), (33, 57368), (34, 57392), (35, 57404), (42, 57473), (47, 57512), (53, 57632), (55, 57641), (56, 57665), (59, 57704), (60, 57710), (61, 57725), (64, 57758), (66, 57767), (71, 57851), (81, 58058), (84, 58091), (85, 58112),

Gene: FlyingTortilla_73 Start: 61445, Stop: 62680, Start Num: 1

Candidate Starts for FlyingTortilla_73:

(Start: 1 @61445 has 11 MA's), (8, 61541), (9, 61574), (11, 61604), (15, 61643), (17, 61676), (18, 61682), (20, 61739), (23, 61793), (28, 61838), (29, 61850), (30, 61859), (31, 61862), (32, 61877), (34, 61904), (35, 61916), (36, 61925), (42, 61985), (43, 62006), (46, 62015), (47, 62024), (50, 62084), (53, 62144), (56, 62177), (59, 62216), (60, 62222), (61, 62237), (64, 62270), (71, 62363), (74, 62435), (84, 62603),

Gene: FruityLoops_71 Start: 60733, Stop: 61962, Start Num: 1

Candidate Starts for FruityLoops_71:

(Start: 1 @60733 has 11 MA's), (8, 60829), (9, 60862), (11, 60892), (15, 60931), (17, 60964), (18, 60970), (20, 61027), (23, 61081), (28, 61126), (29, 61138), (30, 61147), (31, 61150), (32, 61165), (34, 61192), (36, 61213), (37, 61216), (41, 61255), (42, 61273), (43, 61294), (46, 61303), (47, 61312), (50, 61372), (53, 61432), (56, 61465), (59, 61504), (60, 61510), (61, 61525), (64, 61558), (71, 61651), (74, 61723), (82, 61879), (84, 61888), (86, 61936),

Gene: GMA6_61 Start: 49979, Stop: 51178, Start Num: 1

Candidate Starts for GMA6_61:

(Start: 1 @49979 has 11 MA's), (4, 50015), (10, 50090), (21, 50246), (23, 50294), (24, 50309), (26, 50315), (28, 50339), (33, 50381), (34, 50405), (35, 50417), (42, 50486), (43, 50507), (47, 50525), (52, 50627), (55, 50654), (57, 50693), (59, 50717), (60, 50723), (62, 50750), (65, 50774), (69, 50825), (72, 50915), (79, 50981),

Gene: Gray_72 Start: 57687, Stop: 58916, Start Num: 1

Candidate Starts for Gray_72:

(Start: 1 @57687 has 11 MA's), (8, 57783), (11, 57846), (15, 57885), (17, 57918), (18, 57924), (19, 57957), (20, 57981), (23, 58035), (28, 58080), (30, 58101), (32, 58119), (33, 58122), (34, 58146), (35, 58158), (42, 58227), (47, 58266), (53, 58386), (55, 58395), (56, 58419), (59, 58458), (60, 58464), (61, 58479), (64, 58512), (66, 58521), (71, 58605), (81, 58812), (84, 58845), (85, 58866),

Gene: Hanem_71 Start: 57172, Stop: 58401, Start Num: 1

Candidate Starts for Hanem_71:

(Start: 1 @57172 has 11 MA's), (8, 57268), (11, 57331), (15, 57370), (17, 57403), (18, 57409), (19, 57442), (20, 57466), (23, 57520), (28, 57565), (30, 57586), (32, 57604), (33, 57607), (34, 57631), (35, 57643), (42, 57712), (47, 57751), (53, 57871), (55, 57880), (56, 57904), (59, 57943), (60, 57949), (61, 57964), (64, 57997), (66, 58006), (71, 58090), (81, 58297), (84, 58330), (85, 58351),

Gene: Kabocha_73 Start: 58515, Stop: 59744, Start Num: 1

Candidate Starts for Kabocha_73:

(Start: 1 @58515 has 11 MA's), (8, 58611), (11, 58674), (15, 58713), (17, 58746), (18, 58752), (19, 58785), (20, 58809), (23, 58863), (28, 58908), (30, 58929), (32, 58947), (33, 58950), (34, 58974), (35, 58986), (42, 59055), (47, 59094), (53, 59214), (55, 59223), (56, 59247), (59, 59286), (60, 59292), (61, 59307), (64, 59340), (66, 59349), (71, 59433), (81, 59640), (84, 59673), (85, 59694),

Gene: Lenoshki_72 Start: 59298, Stop: 60527, Start Num: 1

Candidate Starts for Lenoshki_72:

(Start: 1 @59298 has 11 MA's), (8, 59394), (11, 59457), (15, 59496), (17, 59529), (18, 59535), (19, 59568), (20, 59592), (23, 59646), (28, 59691), (30, 59712), (32, 59730), (33, 59733), (34, 59757), (35, 59769), (42, 59838), (47, 59877), (53, 59997), (55, 60006), (56, 60030), (59, 60069), (60, 60075), (61, 60090), (64, 60123), (66, 60132), (71, 60216), (81, 60423), (84, 60456), (85, 60477),

Gene: Mikronejon_69 Start: 57172, Stop: 58401, Start Num: 1

Candidate Starts for Mikronejon_69:

(Start: 1 @57172 has 11 MA's), (8, 57268), (11, 57331), (15, 57370), (17, 57403), (18, 57409), (19, 57442), (20, 57466), (23, 57520), (28, 57565), (30, 57586), (32, 57604), (33, 57607), (34, 57631), (35, 57643), (42, 57712), (47, 57751), (53, 57871), (55, 57880), (56, 57904), (59, 57943), (60, 57949), (61, 57964), (64, 57997), (66, 58006), (71, 58090), (81, 58297), (84, 58330), (85, 58351),

Gene: MintFritos_70 Start: 57173, Stop: 58402, Start Num: 1

Candidate Starts for MintFritos_70:

(Start: 1 @57173 has 11 MA's), (8, 57269), (11, 57332), (15, 57371), (17, 57404), (18, 57410), (19, 57443), (20, 57467), (23, 57521), (28, 57566), (30, 57587), (32, 57605), (33, 57608), (34, 57632), (35, 57644), (42, 57713), (47, 57752), (53, 57872), (55, 57881), (56, 57905), (59, 57944), (60, 57950), (61, 57965), (64, 57998), (66, 58007), (71, 58091), (81, 58298), (84, 58331), (85, 58352),

Gene: Oogie_73 Start: 59348, Stop: 60577, Start Num: 1

Candidate Starts for Oogie_73:

(Start: 1 @59348 has 11 MA's), (8, 59444), (11, 59507), (15, 59546), (17, 59579), (18, 59585), (19, 59618), (20, 59642), (23, 59696), (28, 59741), (30, 59762), (32, 59780), (33, 59783), (34, 59807), (35, 59819), (42, 59888), (47, 59927), (53, 60047), (55, 60056), (56, 60080), (59, 60119), (60, 60125), (61, 60140), (64, 60173), (66, 60182), (71, 60266), (81, 60473), (84, 60506), (85, 60527),

Gene: Pakusa_69 Start: 56898, Stop: 58127, Start Num: 1

Candidate Starts for Pakusa_69:

(Start: 1 @56898 has 11 MA's), (8, 56994), (11, 57057), (15, 57096), (17, 57129), (18, 57135), (19, 57168), (20, 57192), (23, 57246), (28, 57291), (30, 57312), (32, 57330), (33, 57333), (34, 57357), (35, 57369), (42, 57438), (47, 57477), (53, 57597), (55, 57606), (56, 57630), (59, 57669), (60, 57675), (61, 57690), (64, 57723), (66, 57732), (71, 57816), (81, 58023), (84, 58056), (85, 58077),

Gene: ScarletRaider_72 Start: 60736, Stop: 61959, Start Num: 1

Candidate Starts for ScarletRaider_72:

(Start: 1 @60736 has 11 MA's), (8, 60832), (9, 60865), (11, 60895), (15, 60934), (17, 60967), (18, 60973), (20, 61030), (23, 61084), (28, 61129), (29, 61141), (30, 61150), (31, 61153), (32, 61168), (34, 61195), (35, 61207), (37, 61219), (42, 61276), (43, 61297), (46, 61306), (47, 61315), (50, 61375), (53, 61435), (56, 61468), (59, 61507), (60, 61513), (61, 61528), (64, 61561), (71, 61654), (74, 61726), (84, 61894),

Gene: Schomber_70 Start: 56906, Stop: 58135, Start Num: 1

Candidate Starts for Schomber_70:

(Start: 1 @56906 has 11 MA's), (8, 57002), (11, 57065), (15, 57104), (17, 57137), (18, 57143), (19, 57176), (20, 57200), (23, 57254), (28, 57299), (30, 57320), (32, 57338), (33, 57341), (34, 57365), (35, 57377), (42, 57446), (47, 57485), (53, 57605), (55, 57614), (56, 57638), (59, 57677), (60, 57683), (61, 57698), (64, 57731), (66, 57740), (71, 57824), (81, 58031), (84, 58064), (85, 58085),

Gene: Thales_66 Start: 58594, Stop: 59820, Start Num: 3

Candidate Starts for Thales_66:

(Start: 3 @58594 has 1 MA's), (13, 58741), (14, 58750), (15, 58756), (22, 58873), (23, 58906), (24, 58921), (25, 58924), (26, 58927), (29, 58963), (39, 59071), (40, 59077), (44, 59164), (45, 59167), (47, 59182), (49, 59224), (50, 59242), (52, 59284), (53, 59302), (56, 59335), (58, 59362), (59, 59374), (60, 59380), (63, 59425), (66, 59437), (67, 59467), (70, 59503), (83, 59740),

Gene: Toneprano_70 Start: 57171, Stop: 58400, Start Num: 1

Candidate Starts for Toneprano_70:

(Start: 1 @57171 has 11 MA's), (8, 57267), (11, 57330), (15, 57369), (17, 57402), (18, 57408), (19, 57441), (20, 57465), (23, 57519), (28, 57564), (30, 57585), (32, 57603), (33, 57606), (34, 57630), (35,

57642), (42, 57711), (47, 57750), (53, 57870), (55, 57879), (56, 57903), (59, 57942), (60, 57948), (61, 57963), (64, 57996), (66, 58005), (71, 58089), (81, 58296), (84, 58329), (85, 58350),

Gene: Twin_69 Start: 57171, Stop: 58400, Start Num: 1

Candidate Starts for Twin_69:

(Start: 1 @57171 has 11 MA's), (8, 57267), (11, 57330), (15, 57369), (17, 57402), (18, 57408), (19, 57441), (20, 57465), (23, 57519), (28, 57564), (30, 57585), (32, 57603), (33, 57606), (34, 57630), (35, 57642), (42, 57711), (47, 57750), (53, 57870), (55, 57879), (56, 57903), (59, 57942), (60, 57948), (61, 57963), (64, 57996), (66, 58005), (71, 58089), (81, 58296), (84, 58329), (85, 58350),

Gene: UBSmoodge_74 Start: 61176, Stop: 62405, Start Num: 1

Candidate Starts for UBSmoodge_74:

(Start: 1 @61176 has 11 MA's), (8, 61272), (9, 61305), (11, 61335), (15, 61374), (17, 61407), (18, 61413), (20, 61470), (23, 61524), (28, 61569), (29, 61581), (30, 61590), (31, 61593), (32, 61608), (34, 61635), (35, 61647), (36, 61656), (41, 61698), (42, 61716), (43, 61737), (46, 61746), (47, 61755), (50, 61815), (53, 61875), (56, 61908), (59, 61947), (60, 61953), (61, 61968), (64, 62001), (71, 62094), (74, 62166), (82, 62322), (84, 62331),