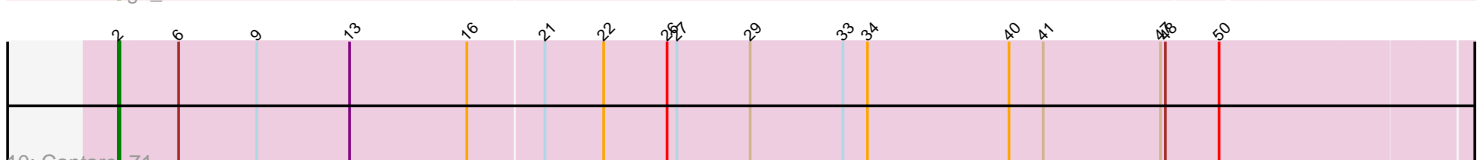
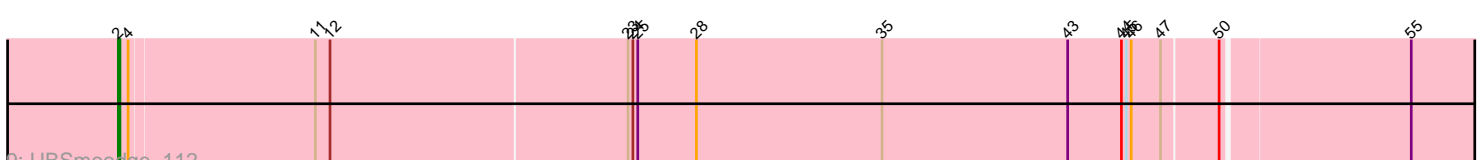
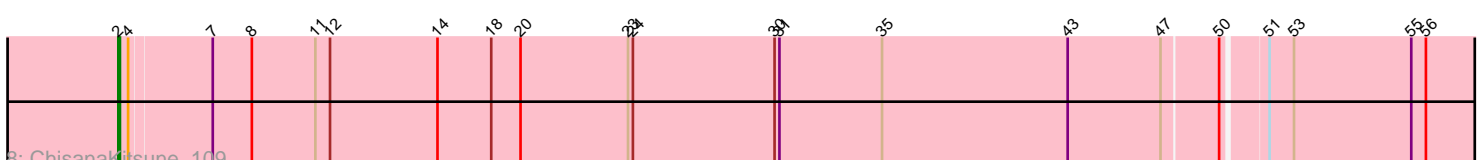
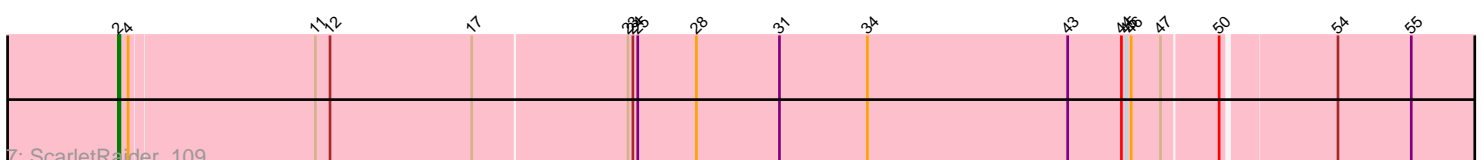
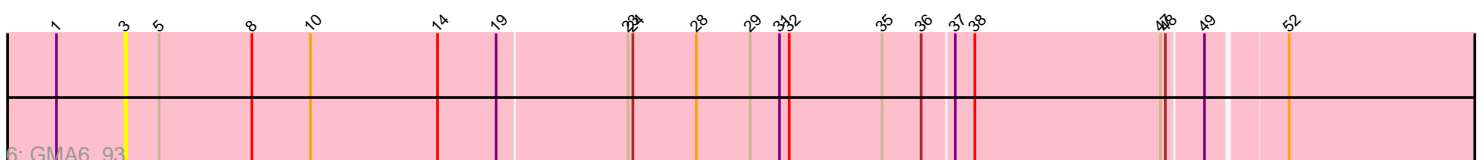
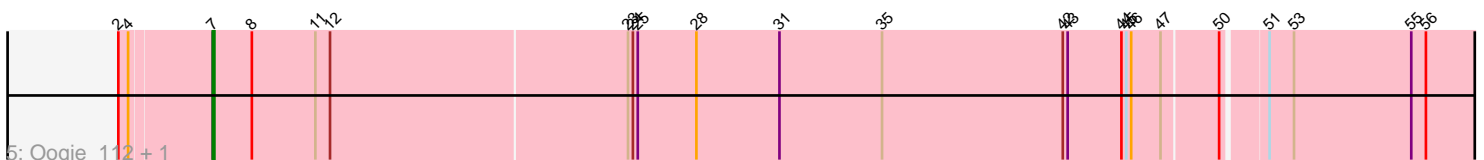
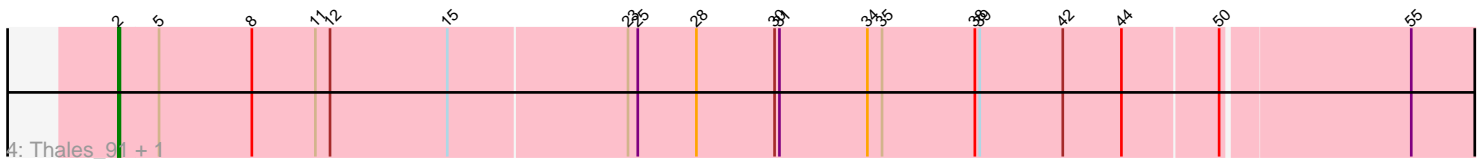
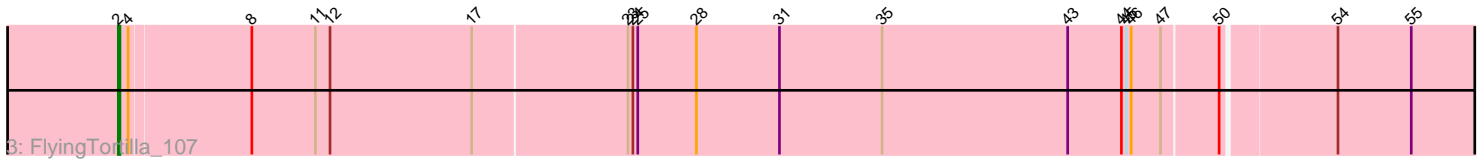
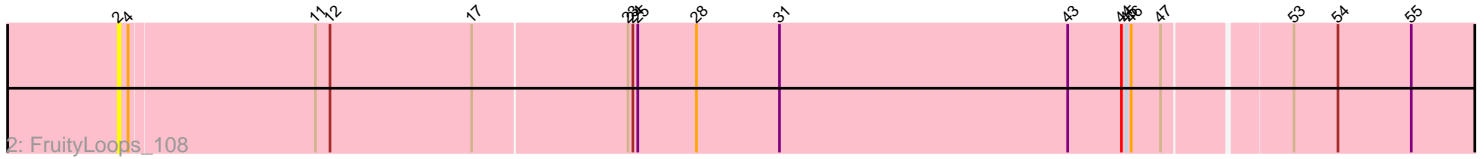
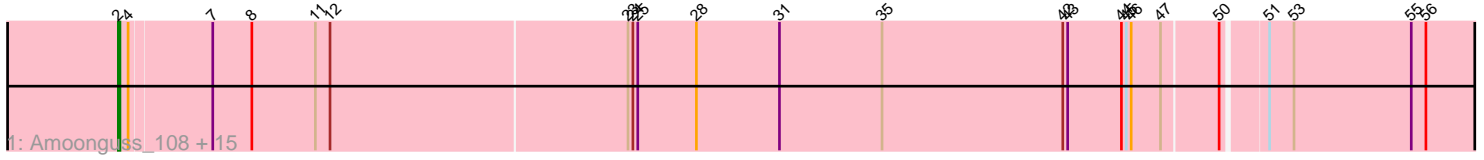


Pham 311931



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 311931 Report

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

Pham number 311931 has 27 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Amoonguss_108, Farrylious_109, Gray_108, Toneprano_107, Kabocha_112, Mikronejon_106, Twin_105, Lenoshki_108, EmoNemo_103, Beted_108, MintFritos_107, Argena_109, Chidiebere_111, Pakusa_104, Hanem_110, Schomber_109
- Track 2 : FruityLoops_108
- Track 3 : FlyingTortilla_107
- Track 4 : Thales_91, DalanDe_94
- Track 5 : Oogie_112, Alok_110
- Track 6 : GMA6_93
- Track 7 : ScarletRaider_109
- Track 8 : ChisanaKitsune_109
- Track 9 : UBSmoodge_112
- Track 10 : Cantare_71

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

The start number called the most often in the published annotations is 2, it was called in 11 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amoonguss_108, Argena_109, Beted_108, Cantare_71, Chidiebere_111, ChisanaKitsune_109, DalanDe_94, EmoNemo_103, Farrylious_109, FlyingTortilla_107, FruityLoops_108, Gray_108, Hanem_110, Kabocha_112, Lenoshki_108, Mikronejon_106, MintFritos_107, Pakusa_104, ScarletRaider_109, Schomber_109, Thales_91, Toneprano_107, Twin_105, UBSmoodge_112,

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

- Alok_110, Oogie_112,

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

- GMA6_93,

Summary by start number:

Start 2:

- Found in 26 of 27 (96.3%) of genes in pham
- Manual Annotations of this start: 11 of 13
- Called 92.3% of time when present
- Phage (with cluster) where this start called: Amoonguss_108 (DQ), Argena_109 (DQ), Beted_108 (DQ), Cantare_71 (singleton), Chidiebere_111 (DQ), ChisanaKitsune_109 (DQ), DalanDe_94 (DQ), EmoNemo_103 (DQ), Farrylious_109 (DQ), FlyingTortilla_107 (DQ), FruityLoops_108 (DQ), Gray_108 (DQ), Hanem_110 (DQ), Kabocha_112 (DQ), Lenoshki_108 (DQ), Mikronejon_106 (DQ), MintFritos_107 (DQ), Pakusa_104 (DQ), ScarletRaider_109 (DQ), Schomber_109 (DQ), Thales_91 (DQ), Toneprano_107 (DQ), Twin_105 (DQ), UBSmoodge_112 (DQ),

Start 3:

- Found in 1 of 27 (3.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA6_93 (DQ),

Start 7:

- Found in 19 of 27 (70.4%) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called 10.5% of time when present
- Phage (with cluster) where this start called: Aloki_110 (DQ), Oogie_112 (DQ),

Summary by clusters:

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

Info for manual annotations of cluster DQ:

- Start number 2 was manually annotated 10 times for cluster DQ.
- Start number 7 was manually annotated 2 times for cluster DQ.

Gene Information:

Gene: Aloki_110 Start: 76678, Stop: 77445, Start Num: 7

Candidate Starts for Aloki_110:

(Start: 2 @76624 has 11 MA's), (4, 76630), (Start: 7 @76678 has 2 MA's), (8, 76702), (11, 76741), (12, 76750), (23, 76930), (24, 76933), (25, 76936), (28, 76972), (31, 77023), (35, 77086), (42, 77197), (43, 77200), (44, 77233), (45, 77236), (46, 77239), (47, 77257), (50, 77290), (51, 77314), (53, 77329), (55, 77401), (56, 77410),

Gene: Amoonguss_108 Start: 77071, Stop: 77892, Start Num: 2

Candidate Starts for Amoonguss_108:

(Start: 2 @77071 has 11 MA's), (4, 77077), (Start: 7 @77125 has 2 MA's), (8, 77149), (11, 77188), (12, 77197), (23, 77377), (24, 77380), (25, 77383), (28, 77419), (31, 77470), (35, 77533), (42, 77644), (43, 77647), (44, 77680), (45, 77683), (46, 77686), (47, 77704), (50, 77737), (51, 77761), (53, 77776), (55, 77848), (56, 77857),

Gene: Argena_109 Start: 77487, Stop: 78308, Start Num: 2

Candidate Starts for Argena_109:

(Start: 2 @77487 has 11 MA's), (4, 77493), (Start: 7 @77541 has 2 MA's), (8, 77565), (11, 77604), (12, 77613), (23, 77793), (24, 77796), (25, 77799), (28, 77835), (31, 77886), (35, 77949), (42, 78060), (43, 78063), (44, 78096), (45, 78099), (46, 78102), (47, 78120), (50, 78153), (51, 78177), (53, 78192), (55, 78264), (56, 78273),

Gene: Beted_108 Start: 78512, Stop: 79333, Start Num: 2

Candidate Starts for Beted_108:

(Start: 2 @78512 has 11 MA's), (4, 78518), (Start: 7 @78566 has 2 MA's), (8, 78590), (11, 78629), (12, 78638), (23, 78818), (24, 78821), (25, 78824), (28, 78860), (31, 78911), (35, 78974), (42, 79085), (43, 79088), (44, 79121), (45, 79124), (46, 79127), (47, 79145), (50, 79178), (51, 79202), (53, 79217), (55, 79289), (56, 79298),

Gene: Cantare_71 Start: 60022, Stop: 60849, Start Num: 2

Candidate Starts for Cantare_71:

(Start: 2 @60022 has 11 MA's), (6, 60058), (9, 60106), (13, 60163), (16, 60235), (21, 60280), (22, 60316), (26, 60355), (27, 60361), (29, 60406), (33, 60463), (34, 60478), (40, 60565), (41, 60586), (47, 60658), (48, 60661), (50, 60694),

Gene: Chidiebere_111 Start: 77754, Stop: 78575, Start Num: 2

Candidate Starts for Chidiebere_111:

(Start: 2 @77754 has 11 MA's), (4, 77760), (Start: 7 @77808 has 2 MA's), (8, 77832), (11, 77871), (12, 77880), (23, 78060), (24, 78063), (25, 78066), (28, 78102), (31, 78153), (35, 78216), (42, 78327), (43, 78330), (44, 78363), (45, 78366), (46, 78369), (47, 78387), (50, 78420), (51, 78444), (53, 78459), (55, 78531), (56, 78540),

Gene: ChisanaKitsune_109 Start: 76622, Stop: 77446, Start Num: 2

Candidate Starts for ChisanaKitsune_109:

(Start: 2 @76622 has 11 MA's), (4, 76628), (Start: 7 @76676 has 2 MA's), (8, 76700), (11, 76739), (12, 76748), (14, 76814), (18, 76847), (20, 76865), (23, 76931), (24, 76934), (30, 77021), (31, 77024), (35, 77087), (43, 77201), (47, 77258), (50, 77291), (51, 77315), (53, 77330), (55, 77402), (56, 77411),

Gene: DalanDe_94 Start: 75542, Stop: 76399, Start Num: 2

Candidate Starts for DalanDe_94:

(Start: 2 @75542 has 11 MA's), (5, 75566), (8, 75623), (11, 75662), (12, 75671), (15, 75743), (23, 75851), (25, 75857), (28, 75893), (30, 75941), (31, 75944), (34, 75998), (35, 76007), (38, 76064), (39, 76067), (42, 76118), (44, 76154), (50, 76211), (55, 76322),

Gene: EmoNemo_103 Start: 76636, Stop: 77457, Start Num: 2

Candidate Starts for EmoNemo_103:

(Start: 2 @76636 has 11 MA's), (4, 76642), (Start: 7 @76690 has 2 MA's), (8, 76714), (11, 76753), (12, 76762), (23, 76942), (24, 76945), (25, 76948), (28, 76984), (31, 77035), (35, 77098), (42, 77209), (43, 77212), (44, 77245), (45, 77248), (46, 77251), (47, 77269), (50, 77302), (51, 77326), (53, 77341), (55, 77413), (56, 77422),

Gene: Farrylious_109 Start: 77242, Stop: 78063, Start Num: 2

Candidate Starts for Farrylious_109:

(Start: 2 @77242 has 11 MA's), (4, 77248), (Start: 7 @77296 has 2 MA's), (8, 77320), (11, 77359), (12, 77368), (23, 77548), (24, 77551), (25, 77554), (28, 77590), (31, 77641), (35, 77704), (42, 77815), (43, 77818), (44, 77851), (45, 77854), (46, 77857), (47, 77875), (50, 77908), (51, 77932), (53, 77947), (55, 78019), (56, 78028),

Gene: FlyingTortilla_107 Start: 80522, Stop: 81343, Start Num: 2

Candidate Starts for FlyingTortilla_107:

(Start: 2 @80522 has 11 MA's), (4, 80528), (8, 80600), (11, 80639), (12, 80648), (17, 80735), (23, 80828), (24, 80831), (25, 80834), (28, 80870), (31, 80921), (35, 80984), (43, 81098), (44, 81131), (45, 81134), (46, 81137), (47, 81155), (50, 81188), (54, 81254), (55, 81299),

Gene: FruityLoops_108 Start: 80028, Stop: 80849, Start Num: 2

Candidate Starts for FruityLoops_108:

(Start: 2 @80028 has 11 MA's), (4, 80034), (11, 80145), (12, 80154), (17, 80241), (23, 80334), (24, 80337), (25, 80340), (28, 80376), (31, 80427), (43, 80604), (44, 80637), (45, 80640), (46, 80643), (47, 80661), (53, 80733), (54, 80760), (55, 80805),

Gene: GMA6_93 Start: 68445, Stop: 69272, Start Num: 3

Candidate Starts for GMA6_93:

(1, 68403), (3, 68445), (5, 68466), (8, 68523), (10, 68559), (14, 68637), (19, 68673), (23, 68751), (24, 68754), (28, 68793), (29, 68826), (31, 68844), (32, 68850), (35, 68907), (36, 68931), (37, 68949), (38, 68961), (47, 69075), (48, 69078), (49, 69099), (52, 69144),

Gene: Gray_108 Start: 76897, Stop: 77718, Start Num: 2

Candidate Starts for Gray_108:

(Start: 2 @76897 has 11 MA's), (4, 76903), (Start: 7 @76951 has 2 MA's), (8, 76975), (11, 77014), (12, 77023), (23, 77203), (24, 77206), (25, 77209), (28, 77245), (31, 77296), (35, 77359), (42, 77470), (43, 77473), (44, 77506), (45, 77509), (46, 77512), (47, 77530), (50, 77563), (51, 77587), (53, 77602), (55, 77674), (56, 77683),

Gene: Hanem_110 Start: 76624, Stop: 77445, Start Num: 2

Candidate Starts for Hanem_110:

(Start: 2 @76624 has 11 MA's), (4, 76630), (Start: 7 @76678 has 2 MA's), (8, 76702), (11, 76741), (12, 76750), (23, 76930), (24, 76933), (25, 76936), (28, 76972), (31, 77023), (35, 77086), (42, 77197), (43, 77200), (44, 77233), (45, 77236), (46, 77239), (47, 77257), (50, 77290), (51, 77314), (53, 77329), (55, 77401), (56, 77410),

Gene: Kabocha_112 Start: 78567, Stop: 79388, Start Num: 2

Candidate Starts for Kabocha_112:

(Start: 2 @78567 has 11 MA's), (4, 78573), (Start: 7 @78621 has 2 MA's), (8, 78645), (11, 78684), (12, 78693), (23, 78873), (24, 78876), (25, 78879), (28, 78915), (31, 78966), (35, 79029), (42, 79140), (43, 79143), (44, 79176), (45, 79179), (46, 79182), (47, 79200), (50, 79233), (51, 79257), (53, 79272), (55, 79344), (56, 79353),

Gene: Lenoshki_108 Start: 78512, Stop: 79333, Start Num: 2

Candidate Starts for Lenoshki_108:

(Start: 2 @78512 has 11 MA's), (4, 78518), (Start: 7 @78566 has 2 MA's), (8, 78590), (11, 78629), (12, 78638), (23, 78818), (24, 78821), (25, 78824), (28, 78860), (31, 78911), (35, 78974), (42, 79085), (43, 79088), (44, 79121), (45, 79124), (46, 79127), (47, 79145), (50, 79178), (51, 79202), (53, 79217), (55, 79289), (56, 79298),

Gene: Mikronejon_106 Start: 77104, Stop: 77925, Start Num: 2

Candidate Starts for Mikronejon_106:

(Start: 2 @77104 has 11 MA's), (4, 77110), (Start: 7 @77158 has 2 MA's), (8, 77182), (11, 77221), (12, 77230), (23, 77410), (24, 77413), (25, 77416), (28, 77452), (31, 77503), (35, 77566), (42, 77677), (43, 77680), (44, 77713), (45, 77716), (46, 77719), (47, 77737), (50, 77770), (51, 77794), (53, 77809), (55, 77881), (56, 77890),

Gene: MintFritos_107 Start: 77392, Stop: 78213, Start Num: 2

Candidate Starts for MintFritos_107:

(Start: 2 @77392 has 11 MA's), (4, 77398), (Start: 7 @77446 has 2 MA's), (8, 77470), (11, 77509), (12, 77518), (23, 77698), (24, 77701), (25, 77704), (28, 77740), (31, 77791), (35, 77854), (42, 77965), (43, 77968), (44, 78001), (45, 78004), (46, 78007), (47, 78025), (50, 78058), (51, 78082), (53, 78097), (55, 78169), (56, 78178),

Gene: Oogie_112 Start: 78616, Stop: 79383, Start Num: 7

Candidate Starts for Oogie_112:

(Start: 2 @78562 has 11 MA's), (4, 78568), (Start: 7 @78616 has 2 MA's), (8, 78640), (11, 78679), (12, 78688), (23, 78868), (24, 78871), (25, 78874), (28, 78910), (31, 78961), (35, 79024), (42, 79135), (43, 79138), (44, 79171), (45, 79174), (46, 79177), (47, 79195), (50, 79228), (51, 79252), (53, 79267), (55, 79339), (56, 79348),

Gene: Pakusa_104 Start: 76362, Stop: 77183, Start Num: 2

Candidate Starts for Pakusa_104:

(Start: 2 @76362 has 11 MA's), (4, 76368), (Start: 7 @76416 has 2 MA's), (8, 76440), (11, 76479), (12, 76488), (23, 76668), (24, 76671), (25, 76674), (28, 76710), (31, 76761), (35, 76824), (42, 76935), (43, 76938), (44, 76971), (45, 76974), (46, 76977), (47, 76995), (50, 77028), (51, 77052), (53, 77067), (55, 77139), (56, 77148),

Gene: ScarletRaider_109 Start: 79864, Stop: 80685, Start Num: 2

Candidate Starts for ScarletRaider_109:

(Start: 2 @79864 has 11 MA's), (4, 79870), (11, 79981), (12, 79990), (17, 80077), (23, 80170), (24, 80173), (25, 80176), (28, 80212), (31, 80263), (34, 80317), (43, 80440), (44, 80473), (45, 80476), (46, 80479), (47, 80497), (50, 80530), (54, 80596), (55, 80641),

Gene: Schomber_109 Start: 76955, Stop: 77776, Start Num: 2

Candidate Starts for Schomber_109:

(Start: 2 @76955 has 11 MA's), (4, 76961), (Start: 7 @77009 has 2 MA's), (8, 77033), (11, 77072), (12, 77081), (23, 77261), (24, 77264), (25, 77267), (28, 77303), (31, 77354), (35, 77417), (42, 77528), (43, 77531), (44, 77564), (45, 77567), (46, 77570), (47, 77588), (50, 77621), (51, 77645), (53, 77660), (55, 77732), (56, 77741),

Gene: Thales_91 Start: 74069, Stop: 74926, Start Num: 2

Candidate Starts for Thales_91:

(Start: 2 @74069 has 11 MA's), (5, 74093), (8, 74150), (11, 74189), (12, 74198), (15, 74270), (23, 74378), (25, 74384), (28, 74420), (30, 74468), (31, 74471), (34, 74525), (35, 74534), (38, 74591), (39, 74594), (42, 74645), (44, 74681), (50, 74738), (55, 74849),

Gene: Toneprano_107 Start: 77085, Stop: 77906, Start Num: 2

Candidate Starts for Toneprano_107:

(Start: 2 @77085 has 11 MA's), (4, 77091), (Start: 7 @77139 has 2 MA's), (8, 77163), (11, 77202), (12, 77211), (23, 77391), (24, 77394), (25, 77397), (28, 77433), (31, 77484), (35, 77547), (42, 77658), (43, 77661), (44, 77694), (45, 77697), (46, 77700), (47, 77718), (50, 77751), (51, 77775), (53, 77790), (55, 77862), (56, 77871),

Gene: Twin_105 Start: 77115, Stop: 77936, Start Num: 2

Candidate Starts for Twin_105:

(Start: 2 @77115 has 11 MA's), (4, 77121), (Start: 7 @77169 has 2 MA's), (8, 77193), (11, 77232), (12, 77241), (23, 77421), (24, 77424), (25, 77427), (28, 77463), (31, 77514), (35, 77577), (42, 77688), (43, 77691), (44, 77724), (45, 77727), (46, 77730), (47, 77748), (50, 77781), (51, 77805), (53, 77820), (55, 77892), (56, 77901),

Gene: UBSmoodge_112 Start: 80309, Stop: 81130, Start Num: 2

Candidate Starts for UBSmoodge_112:

(Start: 2 @80309 has 11 MA's), (4, 80315), (11, 80426), (12, 80435), (23, 80615), (24, 80618), (25, 80621), (28, 80657), (35, 80771), (43, 80885), (44, 80918), (45, 80921), (46, 80924), (47, 80942), (50, 80975), (55, 81086),