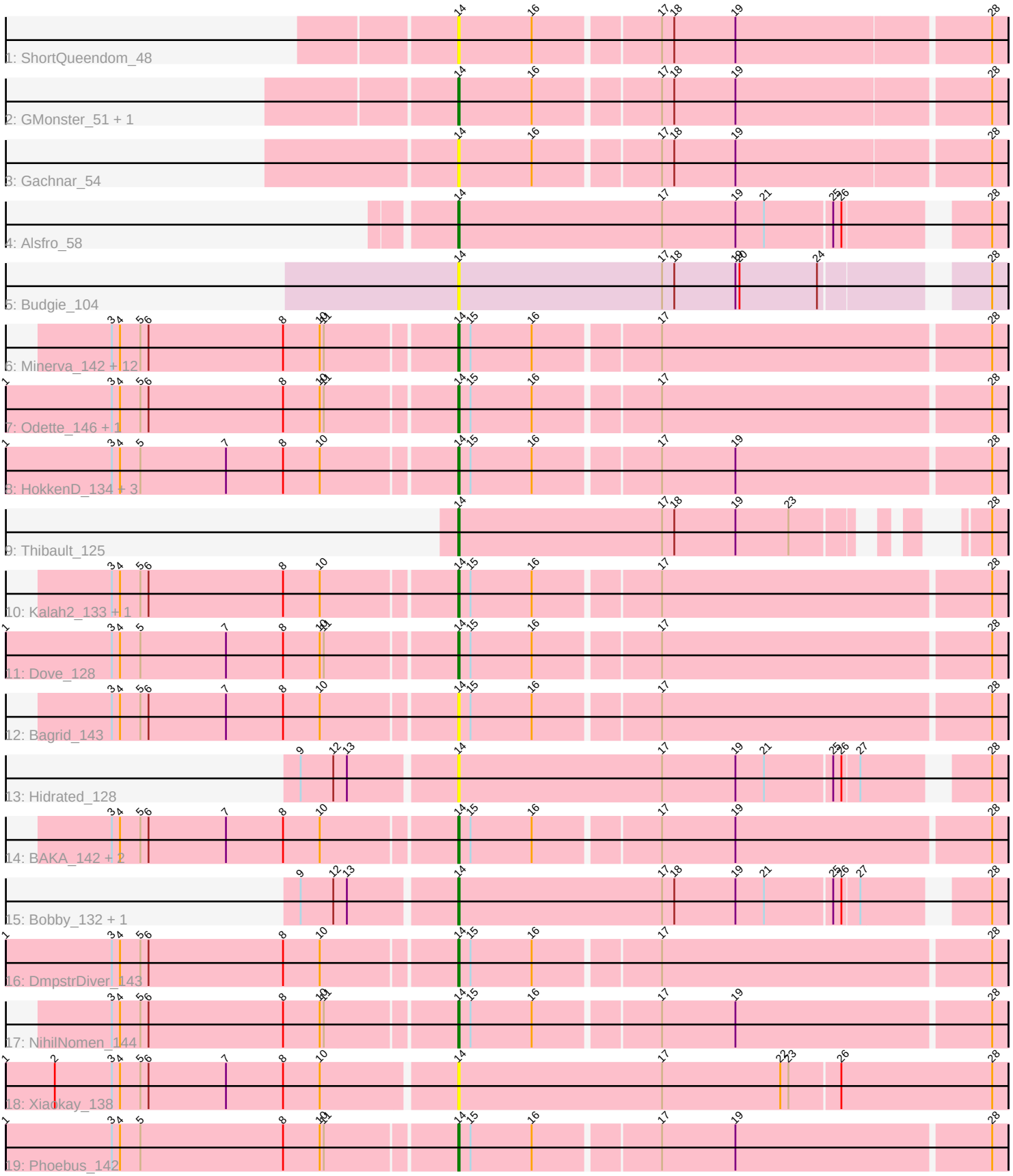
Pham 271865


1: ShortQueendom_48
2: GMonster_51 + 1
3: Gachnar_54
4: Alsfro_58
5: Budgie_104
6: Minerva_142 + 12
7: Odette_146 + 1
8: HokkenD_134 + 3
9: Thibault_125
10: Kalah2_133 + 1
11: Dove_128
12: Bagrid_143
13: Hidrated_128
14: BAKA_142 + 2
15: Bobby_132 + 1
16: DmpstrDiver_143
17: NihilNomen_144
18: Xiaokay_138
19: Phoebus_142

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 271865 Report

This analysis was run 02/07/26 on database version 634.

Pham number 271865 has 40 members, 8 are drafts.

Phages represented in each track:
• Track 1 : ShortQueendom_48
• Track 2 : GMonster_51, Snazzy_53
• Track 3 : Gachnar_54
• Track 4 : Alsfro_58
• Track 5 : Budgie_104
• Track 6 : Minerva_142, Constella_136, JuicyJay_138, Pound_130, Optimus_133, Hughesyang_141, Klein_140, Beem_144, Halley_144, Ejimix_135, Zelink_137, Dallas_143, Bombitas_130
• Track 7 : Odette_146, Wanda_142
• Track 8 : HokkenD_134, ThreeRngTarjay_137, Redno2_134, Yeet_135
• Track 9 : Thibault_125
• Track 10 : Kalah2_133, Schatzie_138
• Track 11 : Dove_128
• Track 12 : Bagrid_143
• Track 13 : Hidrated_128
• Track 14 : BAKA_142, Duke13_138, EricMillard_134
• Track 15 : Bobby_132, Marleymoo_125
• Track 16 : DmpstrDiver_143
• Track 17 : NihilNomen_144
• Track 18 : Xiaokay_138
• Track 19 : Phoebus_142

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

The start number called the most often in the published annotations is 14, it was called in 32 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alsfro_58, BAKA_142, Bagrid_143, Beem_144, Bobby_132, Bombitas_130, Budgie_104, Constella_136, Dallas_143, DmpstrDiver_143, Dove_128, Duke13_138, Ejimix_135, EricMillard_134, GMonster_51, Gachnar_54, Halley_144, Hidrated_128, HokkenD_134, Hughesyang_141, JuicyJay_138, Kalah2_133, Klein_140, Marleymoo_125, Minerva_142, NihilNomen_144, Odette_146, Optimus_133, Phoebus_142, Pound_130, Redno2_134, Schatzie_138, ShortQueendom_48,

Snazzy_53, Thibault_125, ThreeRngTarjay_137, Wanda_142, Xiaokay_138, Yeet_135, Zelink_137,

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

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

Summary by start number:

Start 14:
• Found in 40 of 40 (100.0%) of genes in pham
• Manual Annotations of this start: 32 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alsfro_58 (A1), BAKA_142 (J), Bagrid_143 (J), Beem_144 (J), Bobby_132 (J), Bombitas_130 (J), Budgie_104 (E), Constella_136 (J), Dallas_143 (J), DmpstrDiver_143 (J), Dove_128 (J), Duke13_138 (J), Ejimix_135 (J), EricMillard_134 (J), GMonster_51 (A1), Gachnar_54 (A1), Halley_144 (J), Hidrated_128 (J), HokkenD_134 (J), Hughesyang_141 (J), JuicyJay_138 (J), Kalah2_133 (J), Klein_140 (J), Marleymoo_125 (J), Minerva_142 (J), NihilNomen_144 (J), Odette_146 (J), Optimus_133 (J), Phoebus_142 (J), Pound_130 (J), Redno2_134 (J), Schatzie_138 (J), ShortQueendom_48 (A1), Snazzy_53 (A1), Thibault_125 (J), ThreeRngTarjay_137 (J), Wanda_142 (J), Xiaokay_138 (J), Yeet_135 (J), Zelink_137 (J),

Summary by clusters:

There are 3 clusters represented in this pham: A1, J, E,

Info for manual annotations of cluster A1:
•Start number 14 was manually annotated 3 times for cluster A1.

Info for manual annotations of cluster J:
•Start number 14 was manually annotated 29 times for cluster J.

Gene Information:

Gene: Alsfro_58 Start: 38822, Stop: 38445, Start Num: 14
Candidate Starts for Alsfro_58:
(Start: 14 @38822 has 32 MA's), (17, 38672), (19, 38618), (21, 38597), (25, 38549), (26, 38543), (28, 38456),

Gene: BAKA_142 Start: 75397, Stop: 75786, Start Num: 14
Candidate Starts for BAKA_142:
(3, 75151), (4, 75157), (5, 75172), (6, 75178), (7, 75235), (8, 75277), (10, 75304), (Start: 14 @75397 has 32 MA's), (15, 75406), (16, 75451), (17, 75538), (19, 75592), (28, 75775),

Gene: Bagrid_143 Start: 76092, Stop: 76481, Start Num: 14
Candidate Starts for Bagrid_143:

(3, 75846), (4, 75852), (5, 75867), (6, 75873), (7, 75930), (8, 75972), (10, 75999), (Start: 14 @76092 has 32 MA's), (15, 76101), (16, 76146), (17, 76233), (28, 76470),

Gene: Beem_144 Start: 76995, Stop: 77384, Start Num: 14
Candidate Starts for Beem_144:
(3, 76749), (4, 76755), (5, 76770), (6, 76776), (8, 76875), (10, 76902), (11, 76905), (Start: 14 @76995 has 32 MA's), (15, 77004), (16, 77049), (17, 77136), (28, 77373),

Gene: Bobby_132 Start: 76850, Stop: 77227, Start Num: 14
Candidate Starts for Bobby_132:
(9, 76742), (12, 76766), (13, 76775), (Start: 14 @76850 has 32 MA's), (17, 77000), (18, 77009), (19, 77054), (21, 77075), (25, 77123), (26, 77129), (27, 77141), (28, 77216),

Gene: Bombitas_130 Start: 74406, Stop: 74795, Start Num: 14
Candidate Starts for Bombitas_130:
(3, 74160), (4, 74166), (5, 74181), (6, 74187), (8, 74286), (10, 74313), (11, 74316), (Start: 14 @74406 has 32 MA's), (15, 74415), (16, 74460), (17, 74547), (28, 74784),

Gene: Budgie_104 Start: 57281, Stop: 57658, Start Num: 14
Candidate Starts for Budgie_104:
(Start: 14 @57281 has 32 MA's), (17, 57431), (18, 57440), (19, 57485), (20, 57488), (24, 57545), (28, 57647),

Gene: Constella_136 Start: 75648, Stop: 76037, Start Num: 14
Candidate Starts for Constella_136:
(3, 75402), (4, 75408), (5, 75423), (6, 75429), (8, 75528), (10, 75555), (11, 75558), (Start: 14 @75648 has 32 MA's), (15, 75657), (16, 75702), (17, 75789), (28, 76026),

Gene: Dallas_143 Start: 76462, Stop: 76851, Start Num: 14
Candidate Starts for Dallas_143:
(3, 76216), (4, 76222), (5, 76237), (6, 76243), (8, 76342), (10, 76369), (11, 76372), (Start: 14 @76462 has 32 MA's), (15, 76471), (16, 76516), (17, 76603), (28, 76840),

Gene: DmpstrDiver_143 Start: 76381, Stop: 76770, Start Num: 14
Candidate Starts for DmpstrDiver_143:
(1, 76057), (3, 76135), (4, 76141), (5, 76156), (6, 76162), (8, 76261), (10, 76288), (Start: 14 @76381 has 32 MA's), (15, 76390), (16, 76435), (17, 76522), (28, 76759),

Gene: Dove_128 Start: 71980, Stop: 72369, Start Num: 14
Candidate Starts for Dove_128:
(1, 71656), (3, 71734), (4, 71740), (5, 71755), (7, 71818), (8, 71860), (10, 71887), (11, 71890), (Start: 14 @71980 has 32 MA's), (15, 71989), (16, 72034), (17, 72121), (28, 72358),

Gene: Duke13_138 Start: 73682, Stop: 74071, Start Num: 14
Candidate Starts for Duke13_138:
(3, 73436), (4, 73442), (5, 73457), (6, 73463), (7, 73520), (8, 73562), (10, 73589), (Start: 14 @73682 has 32 MA's), (15, 73691), (16, 73736), (17, 73823), (19, 73877), (28, 74060),

Gene: Ejimix_135 Start: 76530, Stop: 76919, Start Num: 14
Candidate Starts for Ejimix_135:
(3, 76284), (4, 76290), (5, 76305), (6, 76311), (8, 76410), (10, 76437), (11, 76440), (Start: 14 @76530 has 32 MA's), (15, 76539), (16, 76584), (17, 76671), (28, 76908),

Gene: EricMillard_134 Start: 75034, Stop: 75423, Start Num: 14
Candidate Starts for EricMillard_134:
(3, 74788), (4, 74794), (5, 74809), (6, 74815), (7, 74872), (8, 74914), (10, 74941), (Start: 14 @75034 has 32 MA's), (15, 75043), (16, 75088), (17, 75175), (19, 75229), (28, 75412),

Gene: GMonster_51 Start: 37212, Stop: 36826, Start Num: 14
Candidate Starts for GMonster_51:
(Start: 14 @37212 has 32 MA's), (16, 37158), (17, 37071), (18, 37062), (19, 37017), (28, 36837),

Gene: Gachnar_54 Start: 37980, Stop: 37594, Start Num: 14
Candidate Starts for Gachnar_54:
(Start: 14 @37980 has 32 MA's), (16, 37926), (17, 37839), (18, 37830), (19, 37785), (28, 37605),

Gene: Halley_144 Start: 76846, Stop: 77235, Start Num: 14
Candidate Starts for Halley_144:
(3, 76600), (4, 76606), (5, 76621), (6, 76627), (8, 76726), (10, 76753), (11, 76756), (Start: 14 @76846 has 32 MA's), (15, 76855), (16, 76900), (17, 76987), (28, 77224),

Gene: Hidrated_128 Start: 75183, Stop: 75560, Start Num: 14
Candidate Starts for Hidrated_128:
(9, 75075), (12, 75099), (13, 75108), (Start: 14 @75183 has 32 MA's), (17, 75333), (19, 75387), (21, 75408), (25, 75456), (26, 75462), (27, 75474), (28, 75549),

Gene: HokkenD_134 Start: 75730, Stop: 76119, Start Num: 14
Candidate Starts for HokkenD_134:
(1, 75406), (3, 75484), (4, 75490), (5, 75505), (7, 75568), (8, 75610), (10, 75637), (Start: 14 @75730 has 32 MA's), (15, 75739), (16, 75784), (17, 75871), (19, 75925), (28, 76108),

Gene: Hughesyang_141 Start: 76616, Stop: 77005, Start Num: 14
Candidate Starts for Hughesyang_141:
(3, 76370), (4, 76376), (5, 76391), (6, 76397), (8, 76496), (10, 76523), (11, 76526), (Start: 14 @76616 has 32 MA's), (15, 76625), (16, 76670), (17, 76757), (28, 76994),

Gene: JuicyJay_138 Start: 78131, Stop: 78520, Start Num: 14
Candidate Starts for JuicyJay_138:
(3, 77885), (4, 77891), (5, 77906), (6, 77912), (8, 78011), (10, 78038), (11, 78041), (Start: 14 @78131 has 32 MA's), (15, 78140), (16, 78185), (17, 78272), (28, 78509),

Gene: Kalah2_133 Start: 75737, Stop: 76126, Start Num: 14
Candidate Starts for Kalah2_133:
(3, 75491), (4, 75497), (5, 75512), (6, 75518), (8, 75617), (10, 75644), (Start: 14 @75737 has 32 MA's), (15, 75746), (16, 75791), (17, 75878), (28, 76115),

Gene: Klein_140 Start: 74339, Stop: 74728, Start Num: 14
Candidate Starts for Klein_140:
(3, 74093), (4, 74099), (5, 74114), (6, 74120), (8, 74219), (10, 74246), (11, 74249), (Start: 14 @74339 has 32 MA's), (15, 74348), (16, 74393), (17, 74480), (28, 74717),

Gene: Marleymoo_125 Start: 72596, Stop: 72973, Start Num: 14
Candidate Starts for Marleymoo_125:
(9, 72488), (12, 72512), (13, 72521), (Start: 14 @72596 has 32 MA's), (17, 72746), (18, 72755), (19, 72800), (21, 72821), (25, 72869), (26, 72875), (27, 72887), (28, 72962),

Gene: Minerva_142 Start: 75788, Stop: 76177, Start Num: 14
Candidate Starts for Minerva_142:
(3, 75542), (4, 75548), (5, 75563), (6, 75569), (8, 75668), (10, 75695), (11, 75698), (Start: 14 @75788 has 32 MA's), (15, 75797), (16, 75842), (17, 75929), (28, 76166),

Gene: NihilNomen_144 Start: 76076, Stop: 76465, Start Num: 14
Candidate Starts for NihilNomen_144:
(3, 75830), (4, 75836), (5, 75851), (6, 75857), (8, 75956), (10, 75983), (11, 75986), (Start: 14 @76076 has 32 MA's), (15, 76085), (16, 76130), (17, 76217), (19, 76271), (28, 76454),

Gene: Odette_146 Start: 78219, Stop: 78608, Start Num: 14
Candidate Starts for Odette_146:
(1, 77895), (3, 77973), (4, 77979), (5, 77994), (6, 78000), (8, 78099), (10, 78126), (11, 78129), (Start: 14 @78219 has 32 MA's), (15, 78228), (16, 78273), (17, 78360), (28, 78597),

Gene: Optimus_133 Start: 73356, Stop: 73745, Start Num: 14
Candidate Starts for Optimus_133:
(3, 73110), (4, 73116), (5, 73131), (6, 73137), (8, 73236), (10, 73263), (11, 73266), (Start: 14 @73356 has 32 MA's), (15, 73365), (16, 73410), (17, 73497), (28, 73734),

Gene: Phoebus_142 Start: 77970, Stop: 78359, Start Num: 14
Candidate Starts for Phoebus_142:
(1, 77646), (3, 77724), (4, 77730), (5, 77745), (8, 77850), (10, 77877), (11, 77880), (Start: 14 @77970 has 32 MA's), (15, 77979), (16, 78024), (17, 78111), (19, 78165), (28, 78348),

Gene: Pound_130 Start: 74668, Stop: 75057, Start Num: 14
Candidate Starts for Pound_130:
(3, 74422), (4, 74428), (5, 74443), (6, 74449), (8, 74548), (10, 74575), (11, 74578), (Start: 14 @74668 has 32 MA's), (15, 74677), (16, 74722), (17, 74809), (28, 75046),

Gene: Redno2_134 Start: 73358, Stop: 73747, Start Num: 14
Candidate Starts for Redno2_134:
(1, 73034), (3, 73112), (4, 73118), (5, 73133), (7, 73196), (8, 73238), (10, 73265), (Start: 14 @73358 has 32 MA's), (15, 73367), (16, 73412), (17, 73499), (19, 73553), (28, 73736),

Gene: Schatzie_138 Start: 76638, Stop: 77027, Start Num: 14
Candidate Starts for Schatzie_138:
(3, 76392), (4, 76398), (5, 76413), (6, 76419), (8, 76518), (10, 76545), (Start: 14 @76638 has 32 MA's), (15, 76647), (16, 76692), (17, 76779), (28, 77016),

Gene: ShortQueendom_48 Start: 35685, Stop: 35299, Start Num: 14
Candidate Starts for ShortQueendom_48:
(Start: 14 @35685 has 32 MA's), (16, 35631), (17, 35544), (18, 35535), (19, 35490), (28, 35310),

Gene: Snazzy_53 Start: 38294, Stop: 37908, Start Num: 14
Candidate Starts for Snazzy_53:
(Start: 14 @38294 has 32 MA's), (16, 38240), (17, 38153), (18, 38144), (19, 38099), (28, 37919),

Gene: Thibault_125 Start: 73030, Stop: 73368, Start Num: 14
Candidate Starts for Thibault_125:
(Start: 14 @73030 has 32 MA's), (17, 73180), (18, 73189), (19, 73234), (23, 73273), (28, 73357),

Gene: ThreeRngTarjay_137 Start: 76561, Stop: 76950, Start Num: 14

Candidate Starts for ThreeRngTarjay_137:
(1, 76237), (3, 76315), (4, 76321), (5, 76336), (7, 76399), (8, 76441), (10, 76468), (Start: 14 @76561 has 32 MA's), (15, 76570), (16, 76615), (17, 76702), (19, 76756), (28, 76939),

Gene: Wanda_142 Start: 74268, Stop: 74657, Start Num: 14
Candidate Starts for Wanda_142:
(1, 73944), (3, 74022), (4, 74028), (5, 74043), (6, 74049), (8, 74148), (10, 74175), (11, 74178), (Start: 14 @74268 has 32 MA's), (15, 74277), (16, 74322), (17, 74409), (28, 74646),

Gene: Xiaokay_138 Start: 76094, Stop: 76495, Start Num: 14
Candidate Starts for Xiaokay_138:
(1, 75770), (2, 75806), (3, 75848), (4, 75854), (5, 75869), (6, 75875), (7, 75932), (8, 75974), (10, 76001), (Start: 14 @76094 has 32 MA's), (17, 76244), (22, 76331), (23, 76337), (26, 76373), (28, 76484),

Gene: Yeet_135 Start: 75759, Stop: 76148, Start Num: 14
Candidate Starts for Yeet_135:
(1, 75435), (3, 75513), (4, 75519), (5, 75534), (7, 75597), (8, 75639), (10, 75666), (Start: 14 @75759 has 32 MA's), (15, 75768), (16, 75813), (17, 75900), (19, 75954), (28, 76137),

Gene: Zelink_137 Start: 77080, Stop: 77469, Start Num: 14
Candidate Starts for Zelink_137:
(3, 76834), (4, 76840), (5, 76855), (6, 76861), (8, 76960), (10, 76987), (11, 76990), (Start: 14 @77080 has 32 MA's), (15, 77089), (16, 77134), (17, 77221), (28, 77458),