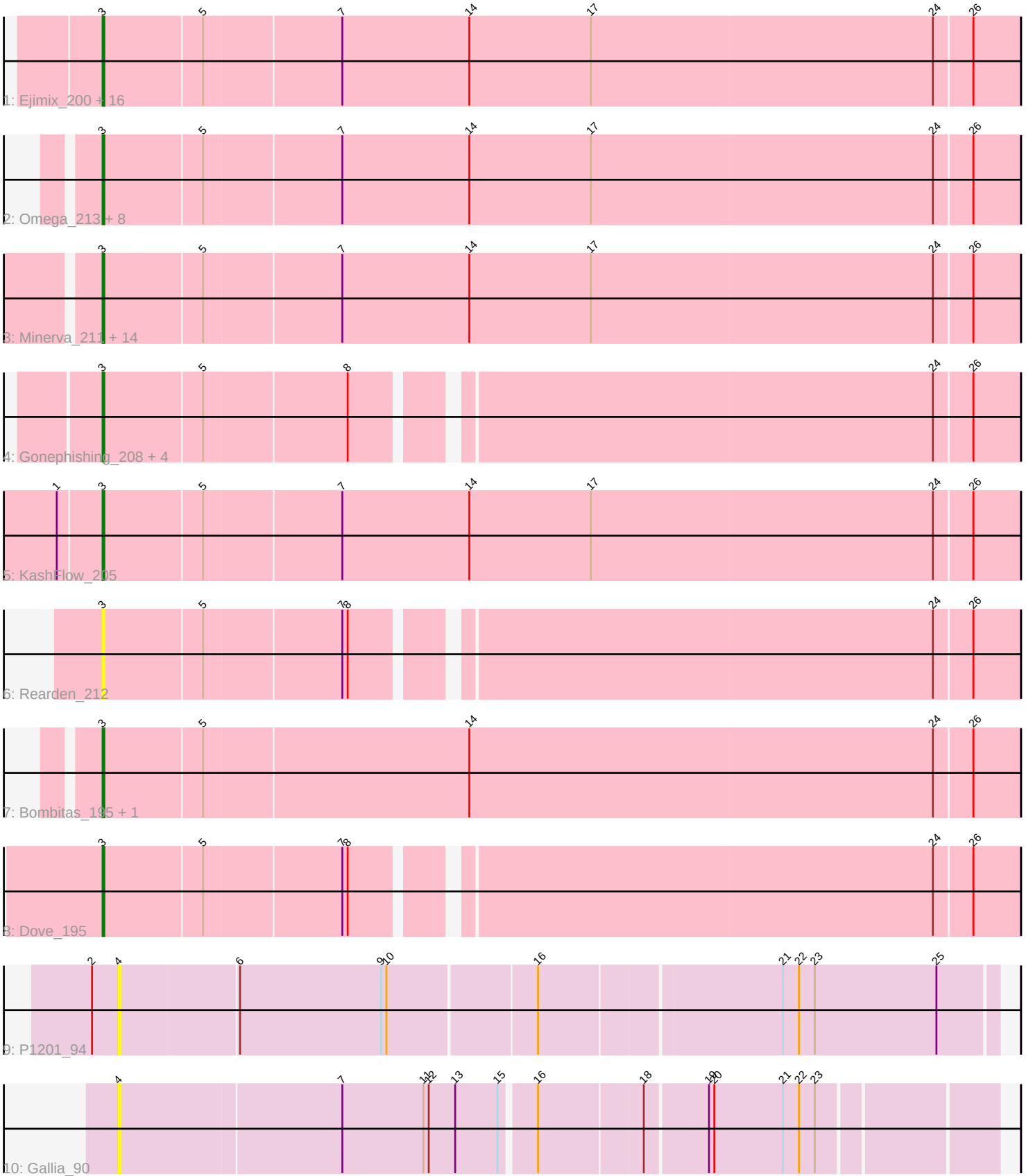
Pham 311668


1: Ejimix_200 + 16
2: Omega_213 + 8
3: Minerva_211 + 14
4: Gonephishing_208 + 4
5: KashFlow_205
6: Rearden_212
7: Bombitas_195 + 1
8: Dove_195
9: P1201_94
10: Gallia_90

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 311668 Report

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

Pham number 311668 has 53 members, 13 are drafts.

Phages represented in each track:
• Track 1 : Ejimix_200, Yeet_202, Courthouse_215, Hannaconda_203, Shaboozey_209, Kalah2_212, Hughesyang_209, Klein_217, BronnyJames_206, Nekros_212, Nibley_204, Superphikiman_211, Ariel_218, Halley_212, Marleymoo_195, Duke13_211, Wanda_209
• Track 2 : Omega_213, Thibault_188, Beem_212, Redno2_202, HokkenD_205, JuicyJay_205, Squint_208, Bobby_194, Phoebus_212
• Track 3 : Minerva_211, Schatzie_206, Pound_203, Optimus_206, Porcelain_212, DmpstrDiver_213, Zelink_203, Odette_215, Dallas_210, ThreeRngTarjay_210, MiaZeal_221, Bagrid_218, BAKA_219, EricMillard_208, Lucky2013_209
• Track 4 : Gonephishing_208, Hidrated_199, Constella_203, LittleE_212, Xiaokay_200
• Track 5 : KashFlow_205
• Track 6 : Rearden_212
• Track 7 : Bombitas_195, NihilNomen_213
• Track 8 : Dove_195
• Track 9 : P1201_94
• Track 10 : Gallia_90

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

The start number called the most often in the published annotations is 3, it was called in 40 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ariel_218, BAKA_219, Bagrid_218, Beem_212, Bobby_194, Bombitas_195, BronnyJames_206, Constella_203, Courthouse_215, Dallas_210, DmpstrDiver_213, Dove_195, Duke13_211, Ejimix_200, EricMillard_208, Gonephishing_208, Halley_212, Hannaconda_203, Hidrated_199, HokkenD_205, Hughesyang_209, JuicyJay_205, Kalah2_212, KashFlow_205, Klein_217, LittleE_212, Lucky2013_209, Marleymoo_195, MiaZeal_221, Minerva_211, Nekros_212, Nibley_204, NihilNomen_213, Odette_215, Omega_213, Optimus_206, Phoebus_212, Porcelain_212, Pound_203, Rearden_212, Redno2_202, Schatzie_206, Shaboozey_209, Squint_208, Superphikiman_211, Thibault_188, ThreeRngTarjay_210, Wanda_209, Xiaokay_200, Yeet_202, Zelink_203,

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

Genes that do not have the "Most Annotated" start:
• Gallia_90, P1201_94,

Summary by start number:

Start 3:
• Found in 51 of 53 (96.2%) of genes in pham
• Manual Annotations of this start: 40 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ariel_218 (J), BAKA_219 (J), Bagrid_218 (J), Beem_212 (J), Bobby_194 (J), Bombitas_195 (J), BronnyJames_206 (J), Constella_203 (J), Courthouse_215 (J), Dallas_210 (J), DmpstrDiver_213 (J), Dove_195 (J), Duke13_211 (J), Ejimix_200 (J), EricMillard_208 (J), Gonephishing_208 (J), Halley_212 (J), Hannaconda_203 (J), Hidrated_199 (J), HokkenD_205 (J), Hughesyang_209 (J), JuicyJay_205 (J), Kalah2_212 (J), KashFlow_205 (J), Klein_217 (J), LittleE_212 (J), Lucky2013_209 (J), Marleymoo_195 (J), MiaZeal_221 (J), Minerva_211 (J), Nekros_212 (J), Nibley_204 (J), NihilNomen_213 (J), Odette_215 (J), Omega_213 (J), Optimus_206 (J), Phoebus_212 (J), Porcelain_212 (J), Pound_203 (J), Rearden_212 (J), Redno2_202 (J), Schatzie_206 (J), Shaboozey_209 (J), Squint_208 (J), Superphikiman_211 (J), Thibault_188 (J), ThreeRngTarjay_210 (J), Wanda_209 (J), Xiaokay_200 (J), Yeet_202 (J), Zelink_203 (J),

Start 4:
• Found in 2 of 53 (3.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gallia_90 (singleton), P1201_94 (singleton),

Summary by clusters:

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

Info for manual annotations of cluster J:
•Start number 3 was manually annotated 40 times for cluster J.

Gene Information:

Gene: Ariel_218 Start: 102219, Stop: 101710, Start Num: 3
Candidate Starts for Ariel_218:
(Start: 3 @102219 has 40 MA's), (5, 102165), (7, 102090), (14, 102018), (17, 101949), (24, 101757), (26, 101736),

Gene: BAKA_219 Start: 105534, Stop: 105025, Start Num: 3
Candidate Starts for BAKA_219:

(Start: 3 @105534 has 40 MA's), (5, 105480), (7, 105405), (14, 105333), (17, 105264), (24, 105072), (26, 105051),

Gene: Bagrid_218 Start: 105896, Stop: 105387, Start Num: 3
Candidate Starts for Bagrid_218:
(Start: 3 @105896 has 40 MA's), (5, 105842), (7, 105767), (14, 105695), (17, 105626), (24, 105434), (26, 105413),

Gene: Beem_212 Start: 104661, Stop: 104152, Start Num: 3
Candidate Starts for Beem_212:
(Start: 3 @104661 has 40 MA's), (5, 104607), (7, 104532), (14, 104460), (17, 104391), (24, 104199), (26, 104178),

Gene: Bobby_194 Start: 103431, Stop: 102931, Start Num: 3
Candidate Starts for Bobby_194:
(Start: 3 @103431 has 40 MA's), (5, 103377), (7, 103302), (14, 103230), (17, 103161), (24, 102969), (26, 102948),

Gene: Bombitas_195 Start: 101149, Stop: 100640, Start Num: 3
Candidate Starts for Bombitas_195:
(Start: 3 @101149 has 40 MA's), (5, 101095), (14, 100948), (24, 100687), (26, 100666),

Gene: BronnyJames_206 Start: 100552, Stop: 100043, Start Num: 3
Candidate Starts for BronnyJames_206:
(Start: 3 @100552 has 40 MA's), (5, 100498), (7, 100423), (14, 100351), (17, 100282), (24, 100090), (26, 100069),

Gene: Constella_203 Start: 103256, Stop: 102777, Start Num: 3
Candidate Starts for Constella_203:
(Start: 3 @103256 has 40 MA's), (5, 103202), (8, 103124), (24, 102815), (26, 102794),

Gene: Courthouse_215 Start: 103079, Stop: 102570, Start Num: 3
Candidate Starts for Courthouse_215:
(Start: 3 @103079 has 40 MA's), (5, 103025), (7, 102950), (14, 102878), (17, 102809), (24, 102617), (26, 102596),

Gene: Dallas_210 Start: 103440, Stop: 102931, Start Num: 3
Candidate Starts for Dallas_210:
(Start: 3 @103440 has 40 MA's), (5, 103386), (7, 103311), (14, 103239), (17, 103170), (24, 102978), (26, 102957),

Gene: DmpstrDiver_213 Start: 104143, Stop: 103634, Start Num: 3
Candidate Starts for DmpstrDiver_213:
(Start: 3 @104143 has 40 MA's), (5, 104089), (7, 104014), (14, 103942), (17, 103873), (24, 103681), (26, 103660),

Gene: Dove_195 Start: 99775, Stop: 99287, Start Num: 3
Candidate Starts for Dove_195:
(Start: 3 @99775 has 40 MA's), (5, 99721), (7, 99646), (8, 99643), (24, 99334), (26, 99313),

Gene: Duke13_211 Start: 103709, Stop: 103200, Start Num: 3
Candidate Starts for Duke13_211:

(Start: 3 @103709 has 40 MA's), (5, 103655), (7, 103580), (14, 103508), (17, 103439), (24, 103247), (26, 103226),

Gene: Ejimix_200 Start: 102666, Stop: 102157, Start Num: 3
Candidate Starts for Ejimix_200:
(Start: 3 @102666 has 40 MA's), (5, 102612), (7, 102537), (14, 102465), (17, 102396), (24, 102204), (26, 102183),

Gene: EricMillard_208 Start: 104788, Stop: 104279, Start Num: 3
Candidate Starts for EricMillard_208:
(Start: 3 @104788 has 40 MA's), (5, 104734), (7, 104659), (14, 104587), (17, 104518), (24, 104326), (26, 104305),

Gene: Gallia_90 Start: 67509, Stop: 67982, Start Num: 4
Candidate Starts for Gallia_90:
(4, 67509), (7, 67632), (11, 67677), (12, 67680), (13, 67695), (15, 67719), (16, 67737), (18, 67794), (19, 67827), (20, 67830), (21, 67869), (22, 67878), (23, 67887),

Gene: Gonephishing_208 Start: 102696, Stop: 102208, Start Num: 3
Candidate Starts for Gonephishing_208:
(Start: 3 @102696 has 40 MA's), (5, 102642), (8, 102564), (24, 102255), (26, 102234),

Gene: Halley_212 Start: 103279, Stop: 102770, Start Num: 3
Candidate Starts for Halley_212:
(Start: 3 @103279 has 40 MA's), (5, 103225), (7, 103150), (14, 103078), (17, 103009), (24, 102817), (26, 102796),

Gene: Hannaconda_203 Start: 103524, Stop: 103015, Start Num: 3
Candidate Starts for Hannaconda_203:
(Start: 3 @103524 has 40 MA's), (5, 103470), (7, 103395), (14, 103323), (17, 103254), (24, 103062), (26, 103041),

Gene: Hidrated_199 Start: 104763, Stop: 104284, Start Num: 3
Candidate Starts for Hidrated_199:
(Start: 3 @104763 has 40 MA's), (5, 104709), (8, 104631), (24, 104322), (26, 104301),

Gene: HokkenD_205 Start: 105424, Stop: 104915, Start Num: 3
Candidate Starts for HokkenD_205:
(Start: 3 @105424 has 40 MA's), (5, 105370), (7, 105295), (14, 105223), (17, 105154), (24, 104962), (26, 104941),

Gene: Hughesyang_209 Start: 103942, Stop: 103433, Start Num: 3
Candidate Starts for Hughesyang_209:
(Start: 3 @103942 has 40 MA's), (5, 103888), (7, 103813), (14, 103741), (17, 103672), (24, 103480), (26, 103459),

Gene: JuicyJay_205 Start: 104613, Stop: 104104, Start Num: 3
Candidate Starts for JuicyJay_205:
(Start: 3 @104613 has 40 MA's), (5, 104559), (7, 104484), (14, 104412), (17, 104343), (24, 104151), (26, 104130),

Gene: Kalah2_212 Start: 105829, Stop: 105320, Start Num: 3
Candidate Starts for Kalah2_212:

(Start: 3 @105829 has 40 MA's), (5, 105775), (7, 105700), (14, 105628), (17, 105559), (24, 105367), (26, 105346),

Gene: KashFlow_205 Start: 103609, Stop: 103100, Start Num: 3
Candidate Starts for KashFlow_205:
(1, 103633), (Start: 3 @103609 has 40 MA's), (5, 103555), (7, 103480), (14, 103408), (17, 103339), (24, 103147), (26, 103126),

Gene: Klein_217 Start: 103837, Stop: 103328, Start Num: 3
Candidate Starts for Klein_217:
(Start: 3 @103837 has 40 MA's), (5, 103783), (7, 103708), (14, 103636), (17, 103567), (24, 103375), (26, 103354),

Gene: LittleE_212 Start: 104019, Stop: 103540, Start Num: 3
Candidate Starts for LittleE_212:
(Start: 3 @104019 has 40 MA's), (5, 103965), (8, 103887), (24, 103578), (26, 103557),

Gene: Lucky2013_209 Start: 100883, Stop: 100374, Start Num: 3
Candidate Starts for Lucky2013_209:
(Start: 3 @100883 has 40 MA's), (5, 100829), (7, 100754), (14, 100682), (17, 100613), (24, 100421), (26, 100400),

Gene: Marleymoo_195 Start: 102008, Stop: 101499, Start Num: 3
Candidate Starts for Marleymoo_195:
(Start: 3 @102008 has 40 MA's), (5, 101954), (7, 101879), (14, 101807), (17, 101738), (24, 101546), (26, 101525),

Gene: MiaZeal_221 Start: 103022, Stop: 102513, Start Num: 3
Candidate Starts for MiaZeal_221:
(Start: 3 @103022 has 40 MA's), (5, 102968), (7, 102893), (14, 102821), (17, 102752), (24, 102560), (26, 102539),

Gene: Minerva_211 Start: 102736, Stop: 102227, Start Num: 3
Candidate Starts for Minerva_211:
(Start: 3 @102736 has 40 MA's), (5, 102682), (7, 102607), (14, 102535), (17, 102466), (24, 102274), (26, 102253),

Gene: Nekros_212 Start: 104008, Stop: 103499, Start Num: 3
Candidate Starts for Nekros_212:
(Start: 3 @104008 has 40 MA's), (5, 103954), (7, 103879), (14, 103807), (17, 103738), (24, 103546), (26, 103525),

Gene: Nibley_204 Start: 100129, Stop: 99620, Start Num: 3
Candidate Starts for Nibley_204:
(Start: 3 @100129 has 40 MA's), (5, 100075), (7, 100000), (14, 99928), (17, 99859), (24, 99667), (26, 99646),

Gene: NihilNomen_213 Start: 102859, Stop: 102350, Start Num: 3
Candidate Starts for NihilNomen_213:
(Start: 3 @102859 has 40 MA's), (5, 102805), (14, 102658), (24, 102397), (26, 102376),

Gene: Odette_215 Start: 105581, Stop: 105072, Start Num: 3
Candidate Starts for Odette_215:

(Start: 3 @105581 has 40 MA's), (5, 105527), (7, 105452), (14, 105380), (17, 105311), (24, 105119), (26, 105098),

Gene: Omega_213 Start: 104389, Stop: 103880, Start Num: 3
Candidate Starts for Omega_213:
(Start: 3 @104389 has 40 MA's), (5, 104335), (7, 104260), (14, 104188), (17, 104119), (24, 103927), (26, 103906),

Gene: Optimus_206 Start: 103167, Stop: 102658, Start Num: 3
Candidate Starts for Optimus_206:
(Start: 3 @103167 has 40 MA's), (5, 103113), (7, 103038), (14, 102966), (17, 102897), (24, 102705), (26, 102684),

Gene: P1201_94 Start: 66726, Stop: 67205, Start Num: 4
Candidate Starts for P1201_94:
(2, 66711), (4, 66726), (6, 66792), (9, 66870), (10, 66873), (16, 66954), (21, 67086), (22, 67095), (23, 67104), (25, 67173),

Gene: Phoebus_212 Start: 106942, Stop: 106433, Start Num: 3
Candidate Starts for Phoebus_212:
(Start: 3 @106942 has 40 MA's), (5, 106888), (7, 106813), (14, 106741), (17, 106672), (24, 106480), (26, 106459),

Gene: Porcelain_212 Start: 101830, Stop: 101321, Start Num: 3
Candidate Starts for Porcelain_212:
(Start: 3 @101830 has 40 MA's), (5, 101776), (7, 101701), (14, 101629), (17, 101560), (24, 101368), (26, 101347),

Gene: Pound_203 Start: 102924, Stop: 102415, Start Num: 3
Candidate Starts for Pound_203:
(Start: 3 @102924 has 40 MA's), (5, 102870), (7, 102795), (14, 102723), (17, 102654), (24, 102462), (26, 102441),

Gene: Rearden_212 Start: 102256, Stop: 101768, Start Num: 3
Candidate Starts for Rearden_212:
(Start: 3 @102256 has 40 MA's), (5, 102202), (7, 102127), (8, 102124), (24, 101815), (26, 101794),

Gene: Redno2_202 Start: 100503, Stop: 99994, Start Num: 3
Candidate Starts for Redno2_202:
(Start: 3 @100503 has 40 MA's), (5, 100449), (7, 100374), (14, 100302), (17, 100233), (24, 100041), (26, 100020),

Gene: Schatzie_206 Start: 103458, Stop: 102949, Start Num: 3
Candidate Starts for Schatzie_206:
(Start: 3 @103458 has 40 MA's), (5, 103404), (7, 103329), (14, 103257), (17, 103188), (24, 102996), (26, 102975),

Gene: Shaboozey_209 Start: 100572, Stop: 100063, Start Num: 3
Candidate Starts for Shaboozey_209:
(Start: 3 @100572 has 40 MA's), (5, 100518), (7, 100443), (14, 100371), (17, 100302), (24, 100110), (26, 100089),

Gene: Squint_208 Start: 101551, Stop: 101042, Start Num: 3

Candidate Starts for Squint_208:
(Start: 3 @101551 has 40 MA's), (5, 101497), (7, 101422), (14, 101350), (17, 101281), (24, 101089), (26, 101068),

Gene: Superphikiman_211 Start: 102040, Stop: 101531, Start Num: 3
Candidate Starts for Superphikiman_211:
(Start: 3 @102040 has 40 MA's), (5, 101986), (7, 101911), (14, 101839), (17, 101770), (24, 101578), (26, 101557),

Gene: Thibault_188 Start: 99414, Stop: 98905, Start Num: 3
Candidate Starts for Thibault_188:
(Start: 3 @99414 has 40 MA's), (5, 99360), (7, 99285), (14, 99213), (17, 99144), (24, 98952), (26, 98931),

Gene: ThreeRngTarjay_210 Start: 105107, Stop: 104598, Start Num: 3
Candidate Starts for ThreeRngTarjay_210:
(Start: 3 @105107 has 40 MA's), (5, 105053), (7, 104978), (14, 104906), (17, 104837), (24, 104645), (26, 104624),

Gene: Wanda_209 Start: 101467, Stop: 100958, Start Num: 3
Candidate Starts for Wanda_209:
(Start: 3 @101467 has 40 MA's), (5, 101413), (7, 101338), (14, 101266), (17, 101197), (24, 101005), (26, 100984),

Gene: Xiaokay_200 Start: 103357, Stop: 102878, Start Num: 3
Candidate Starts for Xiaokay_200:
(Start: 3 @103357 has 40 MA's), (5, 103303), (8, 103225), (24, 102916), (26, 102895),

Gene: Yeet_202 Start: 102302, Stop: 101793, Start Num: 3
Candidate Starts for Yeet_202:
(Start: 3 @102302 has 40 MA's), (5, 102248), (7, 102173), (14, 102101), (17, 102032), (24, 101840), (26, 101819),

Gene: Zelink_203 Start: 102837, Stop: 102328, Start Num: 3
Candidate Starts for Zelink_203:
(Start: 3 @102837 has 40 MA's), (5, 102783), (7, 102708), (14, 102636), (17, 102567), (24, 102375), (26, 102354),