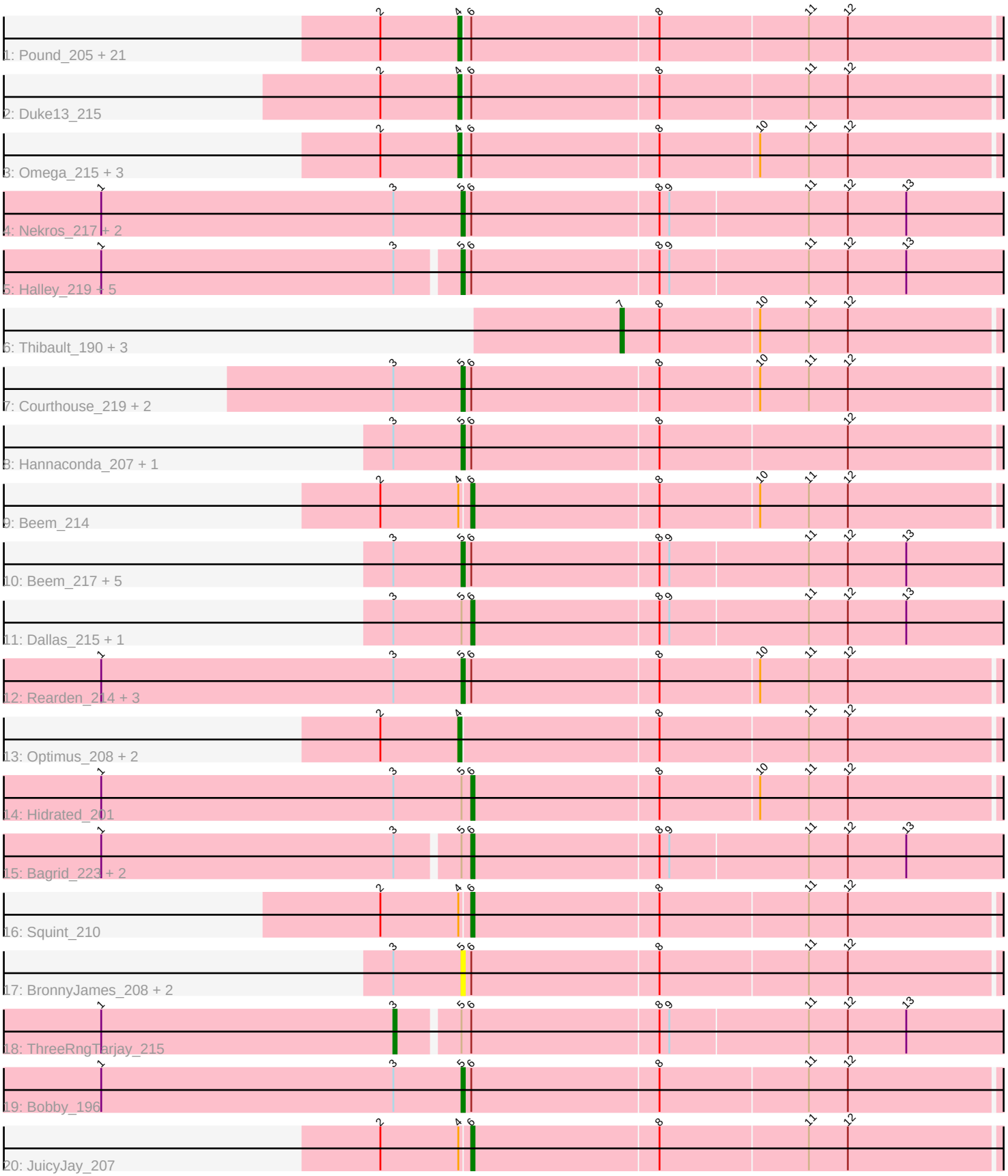
Pham 343948


1: Pound_205 + 21
2: Duke13_215
3: Omega_215 + 3
4: Nekros_217 + 2
5: Halley_219 + 5
6: Thibault_190 + 3
7: Courthouse_219 + 2
8: Hannaconda_207 + 1
9: Beem_214
10: Beem_217 + 5
11: Dallas_215 + 1
12: Rearden_214 + 3
13: Optimus_208 + 2
14: Hidrated_201
15: Bagrid_223 + 2
16: Squint_210
17: BronnyJames_208 + 2
18: ThreeRngTarjay_215
19: Bobby_196
20: JuicyJay_207

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 343948 Report

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

Pham number 343948 has 72 members, 13 are drafts.

Phages represented in each track:
• Track 1 : Pound_205, Minerva_213, Schatzie_208, Nekros_214, Bagrid_220, Kalah2_216, MiaZeal_223, Ejimix_204, Porcelain_214, DmpstrDiver_215, Redno2_204, Wanda_213, Odette_217, Hughesyang_213, Shaboozey_211, Yeet_206, Klein_221, Halley_216, Dove_197, Phoebus_214, EricMillard_210, Lucky2013_211
• Track 2 : Duke13_215
• Track 3 : Omega_215, Dallas_212, Zelink_205, LittleE_216
• Track 4 : Nekros_217, Omega_218, Shaboozey_214
• Track 5 : Halley_219, Ejimix_207, Redno2_207, EricMillard_213, Dove_200, Yeet_209
• Track 6 : Thibault_190, HokkenD_207, NihilNomen_215, Bombitas_197
• Track 7 : Courthouse_219, Ariel_222, Superphikiman_215
• Track 8 : Hannaconda_207, KashFlow_208
• Track 9 : Beem_214
• Track 10 : Beem_217, Squint_213, Zelink_208, Bombitas_200, NihilNomen_218, Optimus_211
• Track 11 : Dallas_215, Duke13_218
• Track 12 : Rearden_214, Constella_207, Marleymoo_199, Xiaokay_204
• Track 13 : Optimus_208, BAKA_221, ThreeRngTarjay_212
• Track 14 : Hidrated_201
• Track 15 : Bagrid_223, JuicyJay_210, Hughesyang_216
• Track 16 : Squint_210
• Track 17 : BronnyJames_208, Gonephishing_212, Nibley_206
• Track 18 : ThreeRngTarjay_215
• Track 19 : Bobby_196
• Track 20 : JuicyJay_207

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

The start number called the most often in the published annotations is 4, it was called in 26 of the 59 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• BAKA_221, Bagrid_220, Dallas_212, DmpstrDiver_215, Dove_197, Duke13_215, Ejimix_204, EricMillard_210, Halley_216, Hughesyang_213, Kalah2_216, Klein_221, LittleE_216, Lucky2013_211, MiaZeal_223, Minerva_213, Nekros_214, Odette_217, Omega_215, Optimus_208, Phoebus_214, Porcelain_214, Pound_205, Redno2_204, Schatzie_208, Shaboozey_211, ThreeRngTarjay_212, Wanda_213, Yeet_206, Zelink_205,

Genes that have the "Most Annotated" start but do not call it:
• Beem_214, JuicyJay_207, Squint_210,

Genes that do not have the "Most Annotated" start:
• Ariel_222, Bagrid_223, Beem_217, Bobby_196, Bombitas_197, Bombitas_200, BronnyJames_208, Constella_207, Courthouse_219, Dallas_215, Dove_200, Duke13_218, Ejimix_207, EricMillard_213, Gonephishing_212, Halley_219, Hannaconda_207, Hidrated_201, HokkenD_207, Hughesyang_216, JuicyJay_210, KashFlow_208, Marleymoo_199, Nekros_217, Nibley_206, NihilNomen_215, NihilNomen_218, Omega_218, Optimus_211, Rearden_214, Redno2_207, Shaboozey_214, Squint_213, Superphikiman_215, Thibault_190, ThreeRngTarjay_215, Xiaokay_204, Yeet_209, Zelink_208,

Summary by start number:

Start 3:
• Found in 35 of 72 (48.6%) of genes in pham
• Manual Annotations of this start: 1 of 59
• Called 2.9% of time when present
• Phage (with cluster) where this start called: ThreeRngTarjay_215 (J),

Start 4:
• Found in 33 of 72 (45.8%) of genes in pham
• Manual Annotations of this start: 26 of 59
• Called 90.9% of time when present
• Phage (with cluster) where this start called: BAKA_221 (J), Bagrid_220 (J), Dallas_212 (J), DmpstrDiver_215 (J), Dove_197 (J), Duke13_215 (J), Ejimix_204 (J), EricMillard_210 (J), Halley_216 (J), Hughesyang_213 (J), Kalah2_216 (J), Klein_221 (J), LittleE_216 (J), Lucky2013_211 (J), MiaZeal_223 (J), Minerva_213 (J), Nekros_214 (J), Odette_217 (J), Omega_215 (J), Optimus_208 (J), Phoebus_214 (J), Porcelain_214 (J), Pound_205 (J), Redno2_204 (J), Schatzie_208 (J), Shaboozey_211 (J), ThreeRngTarjay_212 (J), Wanda_213 (J), Yeet_206 (J), Zelink_205 (J),

Start 5:
• Found in 35 of 72 (48.6%) of genes in pham
• Manual Annotations of this start: 20 of 59
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Ariel_222 (J), Beem_217 (J), Bobby_196 (J), Bombitas_200 (J), BronnyJames_208 (J), Constella_207 (J), Courthouse_219 (J), Dove_200 (J), Ejimix_207 (J), EricMillard_213 (J), Gonephishing_212 (J), Halley_219 (J), Hannaconda_207 (J), KashFlow_208 (J), Marleymoo_199 (J), Nekros_217 (J), Nibley_206 (J), NihilNomen_218 (J), Omega_218 (J), Optimus_211 (J), Rearden_214 (J), Redno2_207 (J), Shaboozey_214 (J), Squint_213 (J), Superphikiman_215 (J), Xiaokay_204 (J), Yeet_209 (J), Zelink_208 (J),

Start 6:
• Found in 65 of 72 (90.3%) of genes in pham
• Manual Annotations of this start: 8 of 59
• Called 13.8% of time when present
• Phage (with cluster) where this start called: Bagrid_223 (J), Beem_214 (J), Dallas_215 (J), Duke13_218 (J), Hidrated_201 (J), Hughesyang_216 (J), JuicyJay_207 (J), JuicyJay_210 (J), Squint_210 (J),

Start 7:
• Found in 4 of 72 (5.6%) of genes in pham
• Manual Annotations of this start: 4 of 59
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bombitas_197 (J), HokkenD_207 (J), NihilNomen_215 (J), Thibault_190 (J),

Summary by clusters:

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:
•Start number 3 was manually annotated 1 time for cluster J.
•Start number 4 was manually annotated 26 times for cluster J.
•Start number 5 was manually annotated 20 times for cluster J.
•Start number 6 was manually annotated 8 times for cluster J.
•Start number 7 was manually annotated 4 times for cluster J.

Gene Information:

Gene: Ariel_222 Start: 103019, Stop: 102831, Start Num: 5
Candidate Starts for Ariel_222:
(Start: 3 @103040 has 1 MA's), (Start: 5 @103019 has 20 MA's), (Start: 6 @103016 has 8 MA's), (8, 102959), (10, 102929), (11, 102914), (12, 102902),

Gene: BAKA_221 Start: 105931, Stop: 105743, Start Num: 4
Candidate Starts for BAKA_221:
(2, 105955), (Start: 4 @105931 has 26 MA's), (8, 105871), (11, 105826), (12, 105814),

Gene: Bagrid_220 Start: 106293, Stop: 106105, Start Num: 4
Candidate Starts for Bagrid_220:
(2, 106317), (Start: 4 @106293 has 26 MA's), (Start: 6 @106290 has 8 MA's), (8, 106233), (11, 106188), (12, 106176),

Gene: Bagrid_223 Start: 107118, Stop: 106930, Start Num: 6
Candidate Starts for Bagrid_223:
(1, 107229), (Start: 3 @107139 has 1 MA's), (Start: 5 @107121 has 20 MA's), (Start: 6 @107118 has 8 MA's), (8, 107061), (9, 107058), (11, 107016), (12, 107004), (13, 106986),

Gene: Beem_214 Start: 105055, Stop: 104870, Start Num: 6
Candidate Starts for Beem_214:
(2, 105082), (Start: 4 @105058 has 26 MA's), (Start: 6 @105055 has 8 MA's), (8, 104998), (10, 104968), (11, 104953), (12, 104941),

Gene: Beem_217 Start: 105886, Stop: 105695, Start Num: 5
Candidate Starts for Beem_217:
(Start: 3 @105907 has 1 MA's), (Start: 5 @105886 has 20 MA's), (Start: 6 @105883 has 8 MA's), (8, 105826), (9, 105823), (11, 105781), (12, 105769), (13, 105751),

Gene: Bobby_196 Start: 103828, Stop: 103640, Start Num: 5
Candidate Starts for Bobby_196:
(1, 103939), (Start: 3 @103849 has 1 MA's), (Start: 5 @103828 has 20 MA's), (Start: 6 @103825 has 8 MA's), (8, 103768), (11, 103723), (12, 103711),

Gene: Bombitas_200 Start: 102375, Stop: 102184, Start Num: 5
Candidate Starts for Bombitas_200:
(Start: 3 @102396 has 1 MA's), (Start: 5 @102375 has 20 MA's), (Start: 6 @102372 has 8 MA's), (8, 102315), (9, 102312), (11, 102270), (12, 102258), (13, 102240),

Gene: Bombitas_197 Start: 101498, Stop: 101358, Start Num: 7
Candidate Starts for Bombitas_197:
(Start: 7 @101498 has 4 MA's), (8, 101486), (10, 101456), (11, 101441), (12, 101429),

Gene: BronnyJames_208 Start: 100938, Stop: 100750, Start Num: 5
Candidate Starts for BronnyJames_208:
(Start: 3 @100959 has 1 MA's), (Start: 5 @100938 has 20 MA's), (Start: 6 @100935 has 8 MA's), (8, 100878), (11, 100833), (12, 100821),

Gene: Constella_207 Start: 104056, Stop: 103868, Start Num: 5
Candidate Starts for Constella_207:
(1, 104167), (Start: 3 @104077 has 1 MA's), (Start: 5 @104056 has 20 MA's), (Start: 6 @104053 has 8 MA's), (8, 103996), (10, 103966), (11, 103951), (12, 103939),

Gene: Courthouse_219 Start: 103879, Stop: 103691, Start Num: 5
Candidate Starts for Courthouse_219:
(Start: 3 @103900 has 1 MA's), (Start: 5 @103879 has 20 MA's), (Start: 6 @103876 has 8 MA's), (8, 103819), (10, 103789), (11, 103774), (12, 103762),

Gene: Dallas_212 Start: 103837, Stop: 103649, Start Num: 4
Candidate Starts for Dallas_212:
(2, 103861), (Start: 4 @103837 has 26 MA's), (Start: 6 @103834 has 8 MA's), (8, 103777), (10, 103747), (11, 103732), (12, 103720),

Gene: Dallas_215 Start: 104662, Stop: 104474, Start Num: 6
Candidate Starts for Dallas_215:
(Start: 3 @104686 has 1 MA's), (Start: 5 @104665 has 20 MA's), (Start: 6 @104662 has 8 MA's), (8, 104605), (9, 104602), (11, 104560), (12, 104548), (13, 104530),

Gene: DmpstrDiver_215 Start: 104540, Stop: 104352, Start Num: 4
Candidate Starts for DmpstrDiver_215:
(2, 104564), (Start: 4 @104540 has 26 MA's), (Start: 6 @104537 has 8 MA's), (8, 104480), (11, 104435), (12, 104423),

Gene: Dove_197 Start: 100172, Stop: 99984, Start Num: 4
Candidate Starts for Dove_197:

(2, 100196), (Start: 4 @100172 has 26 MA's), (Start: 6 @100169 has 8 MA's), (8, 100112), (11, 100067), (12, 100055),

Gene: Dove_200 Start: 101000, Stop: 100809, Start Num: 5
Candidate Starts for Dove_200:
(1, 101108), (Start: 3 @101018 has 1 MA's), (Start: 5 @101000 has 20 MA's), (Start: 6 @100997 has 8 MA's), (8, 100940), (9, 100937), (11, 100895), (12, 100883), (13, 100865),

Gene: Duke13_215 Start: 104509, Stop: 104321, Start Num: 4
Candidate Starts for Duke13_215:
(2, 104533), (Start: 4 @104509 has 26 MA's), (Start: 6 @104506 has 8 MA's), (8, 104449), (11, 104404), (12, 104392),

Gene: Duke13_218 Start: 105334, Stop: 105146, Start Num: 6
Candidate Starts for Duke13_218:
(Start: 3 @105358 has 1 MA's), (Start: 5 @105337 has 20 MA's), (Start: 6 @105334 has 8 MA's), (8, 105277), (9, 105274), (11, 105232), (12, 105220), (13, 105202),

Gene: Ejimix_207 Start: 104294, Stop: 104103, Start Num: 5
Candidate Starts for Ejimix_207:
(1, 104402), (Start: 3 @104312 has 1 MA's), (Start: 5 @104294 has 20 MA's), (Start: 6 @104291 has 8 MA's), (8, 104234), (9, 104231), (11, 104189), (12, 104177), (13, 104159),

Gene: Ejimix_204 Start: 103466, Stop: 103278, Start Num: 4
Candidate Starts for Ejimix_204:
(2, 103490), (Start: 4 @103466 has 26 MA's), (Start: 6 @103463 has 8 MA's), (8, 103406), (11, 103361), (12, 103349),

Gene: EricMillard_213 Start: 106013, Stop: 105822, Start Num: 5
Candidate Starts for EricMillard_213:
(1, 106121), (Start: 3 @106031 has 1 MA's), (Start: 5 @106013 has 20 MA's), (Start: 6 @106010 has 8 MA's), (8, 105953), (9, 105950), (11, 105908), (12, 105896), (13, 105878),

Gene: EricMillard_210 Start: 105185, Stop: 104997, Start Num: 4
Candidate Starts for EricMillard_210:
(2, 105209), (Start: 4 @105185 has 26 MA's), (Start: 6 @105182 has 8 MA's), (8, 105125), (11, 105080), (12, 105068),

Gene: Gonephishing_212 Start: 103496, Stop: 103308, Start Num: 5
Candidate Starts for Gonephishing_212:
(Start: 3 @103517 has 1 MA's), (Start: 5 @103496 has 20 MA's), (Start: 6 @103493 has 8 MA's), (8, 103436), (11, 103391), (12, 103379),

Gene: Halley_219 Start: 104907, Stop: 104716, Start Num: 5
Candidate Starts for Halley_219:
(1, 105015), (Start: 3 @104925 has 1 MA's), (Start: 5 @104907 has 20 MA's), (Start: 6 @104904 has 8 MA's), (8, 104847), (9, 104844), (11, 104802), (12, 104790), (13, 104772),

Gene: Halley_216 Start: 104079, Stop: 103891, Start Num: 4
Candidate Starts for Halley_216:
(2, 104103), (Start: 4 @104079 has 26 MA's), (Start: 6 @104076 has 8 MA's), (8, 104019), (11, 103974), (12, 103962),

Gene: Hannaconda_207 Start: 104324, Stop: 104136, Start Num: 5
Candidate Starts for Hannaconda_207:
(Start: 3 @104345 has 1 MA's), (Start: 5 @104324 has 20 MA's), (Start: 6 @104321 has 8 MA's), (8, 104264), (12, 104207),

Gene: Hidrated_201 Start: 105560, Stop: 105375, Start Num: 6
Candidate Starts for Hidrated_201:
(1, 105674), (Start: 3 @105584 has 1 MA's), (Start: 5 @105563 has 20 MA's), (Start: 6 @105560 has 8 MA's), (8, 105503), (10, 105473), (11, 105458), (12, 105446),

Gene: HokkenD_207 Start: 105773, Stop: 105633, Start Num: 7
Candidate Starts for HokkenD_207:
(Start: 7 @105773 has 4 MA's), (8, 105761), (10, 105731), (11, 105716), (12, 105704),

Gene: Hughesyang_213 Start: 104739, Stop: 104551, Start Num: 4
Candidate Starts for Hughesyang_213:
(2, 104763), (Start: 4 @104739 has 26 MA's), (Start: 6 @104736 has 8 MA's), (8, 104679), (11, 104634), (12, 104622),

Gene: Hughesyang_216 Start: 105564, Stop: 105376, Start Num: 6
Candidate Starts for Hughesyang_216:
(1, 105675), (Start: 3 @105585 has 1 MA's), (Start: 5 @105567 has 20 MA's), (Start: 6 @105564 has 8 MA's), (8, 105507), (9, 105504), (11, 105462), (12, 105450), (13, 105432),

Gene: JuicyJay_210 Start: 105835, Stop: 105647, Start Num: 6
Candidate Starts for JuicyJay_210:
(1, 105946), (Start: 3 @105856 has 1 MA's), (Start: 5 @105838 has 20 MA's), (Start: 6 @105835 has 8 MA's), (8, 105778), (9, 105775), (11, 105733), (12, 105721), (13, 105703),

Gene: JuicyJay_207 Start: 105007, Stop: 104822, Start Num: 6
Candidate Starts for JuicyJay_207:
(2, 105034), (Start: 4 @105010 has 26 MA's), (Start: 6 @105007 has 8 MA's), (8, 104950), (11, 104905), (12, 104893),

Gene: Kalah2_216 Start: 106629, Stop: 106441, Start Num: 4
Candidate Starts for Kalah2_216:
(2, 106653), (Start: 4 @106629 has 26 MA's), (Start: 6 @106626 has 8 MA's), (8, 106569), (11, 106524), (12, 106512),

Gene: KashFlow_208 Start: 104218, Stop: 104030, Start Num: 5
Candidate Starts for KashFlow_208:
(Start: 3 @104239 has 1 MA's), (Start: 5 @104218 has 20 MA's), (Start: 6 @104215 has 8 MA's), (8, 104158), (12, 104101),

Gene: Klein_221 Start: 104637, Stop: 104449, Start Num: 4
Candidate Starts for Klein_221:
(2, 104661), (Start: 4 @104637 has 26 MA's), (Start: 6 @104634 has 8 MA's), (8, 104577), (11, 104532), (12, 104520),

Gene: LittleE_216 Start: 104819, Stop: 104631, Start Num: 4
Candidate Starts for LittleE_216:
(2, 104843), (Start: 4 @104819 has 26 MA's), (Start: 6 @104816 has 8 MA's), (8, 104759), (10, 104729), (11, 104714), (12, 104702),

Gene: Lucky2013_211 Start: 101280, Stop: 101092, Start Num: 4
Candidate Starts for Lucky2013_211:
(2, 101304), (Start: 4 @101280 has 26 MA's), (Start: 6 @101277 has 8 MA's), (8, 101220), (11, 101175), (12, 101163),

Gene: Marleymoo_199 Start: 102808, Stop: 102620, Start Num: 5
Candidate Starts for Marleymoo_199:
(1, 102919), (Start: 3 @102829 has 1 MA's), (Start: 5 @102808 has 20 MA's), (Start: 6 @102805 has 8 MA's), (8, 102748), (10, 102718), (11, 102703), (12, 102691),

Gene: MiaZeal_223 Start: 103419, Stop: 103231, Start Num: 4
Candidate Starts for MiaZeal_223:
(2, 103443), (Start: 4 @103419 has 26 MA's), (Start: 6 @103416 has 8 MA's), (8, 103359), (11, 103314), (12, 103302),

Gene: Minerva_213 Start: 103133, Stop: 102945, Start Num: 4
Candidate Starts for Minerva_213:
(2, 103157), (Start: 4 @103133 has 26 MA's), (Start: 6 @103130 has 8 MA's), (8, 103073), (11, 103028), (12, 103016),

Gene: Nekros_217 Start: 105222, Stop: 105031, Start Num: 5
Candidate Starts for Nekros_217:
(1, 105333), (Start: 3 @105243 has 1 MA's), (Start: 5 @105222 has 20 MA's), (Start: 6 @105219 has 8 MA's), (8, 105162), (9, 105159), (11, 105117), (12, 105105), (13, 105087),

Gene: Nekros_214 Start: 104394, Stop: 104206, Start Num: 4
Candidate Starts for Nekros_214:
(2, 104418), (Start: 4 @104394 has 26 MA's), (Start: 6 @104391 has 8 MA's), (8, 104334), (11, 104289), (12, 104277),

Gene: Nibley_206 Start: 100515, Stop: 100327, Start Num: 5
Candidate Starts for Nibley_206:
(Start: 3 @100536 has 1 MA's), (Start: 5 @100515 has 20 MA's), (Start: 6 @100512 has 8 MA's), (8, 100455), (11, 100410), (12, 100398),

Gene: NihilNomen_218 Start: 104085, Stop: 103894, Start Num: 5
Candidate Starts for NihilNomen_218:
(Start: 3 @104106 has 1 MA's), (Start: 5 @104085 has 20 MA's), (Start: 6 @104082 has 8 MA's), (8, 104025), (9, 104022), (11, 103980), (12, 103968), (13, 103950),

Gene: NihilNomen_215 Start: 103208, Stop: 103068, Start Num: 7
Candidate Starts for NihilNomen_215:
(Start: 7 @103208 has 4 MA's), (8, 103196), (10, 103166), (11, 103151), (12, 103139),

Gene: Odette_217 Start: 105978, Stop: 105790, Start Num: 4
Candidate Starts for Odette_217:
(2, 106002), (Start: 4 @105978 has 26 MA's), (Start: 6 @105975 has 8 MA's), (8, 105918), (11, 105873), (12, 105861),

Gene: Omega_215 Start: 104786, Stop: 104598, Start Num: 4
Candidate Starts for Omega_215:

(2, 104810), (Start: 4 @104786 has 26 MA's), (Start: 6 @104783 has 8 MA's), (8, 104726), (10, 104696), (11, 104681), (12, 104669),

Gene: Omega_218 Start: 105614, Stop: 105423, Start Num: 5
Candidate Starts for Omega_218:
(1, 105725), (Start: 3 @105635 has 1 MA's), (Start: 5 @105614 has 20 MA's), (Start: 6 @105611 has 8 MA's), (8, 105554), (9, 105551), (11, 105509), (12, 105497), (13, 105479),

Gene: Optimus_208 Start: 103564, Stop: 103376, Start Num: 4
Candidate Starts for Optimus_208:
(2, 103588), (Start: 4 @103564 has 26 MA's), (8, 103504), (11, 103459), (12, 103447),

Gene: Optimus_211 Start: 104392, Stop: 104201, Start Num: 5
Candidate Starts for Optimus_211:
(Start: 3 @104413 has 1 MA's), (Start: 5 @104392 has 20 MA's), (Start: 6 @104389 has 8 MA's), (8, 104332), (9, 104329), (11, 104287), (12, 104275), (13, 104257),

Gene: Phoebus_214 Start: 107339, Stop: 107151, Start Num: 4
Candidate Starts for Phoebus_214:
(2, 107363), (Start: 4 @107339 has 26 MA's), (Start: 6 @107336 has 8 MA's), (8, 107279), (11, 107234), (12, 107222),

Gene: Porcelain_214 Start: 102227, Stop: 102039, Start Num: 4
Candidate Starts for Porcelain_214:
(2, 102251), (Start: 4 @102227 has 26 MA's), (Start: 6 @102224 has 8 MA's), (8, 102167), (11, 102122), (12, 102110),

Gene: Pound_205 Start: 103321, Stop: 103133, Start Num: 4
Candidate Starts for Pound_205:
(2, 103345), (Start: 4 @103321 has 26 MA's), (Start: 6 @103318 has 8 MA's), (8, 103261), (11, 103216), (12, 103204),

Gene: Rearden_214 Start: 102653, Stop: 102465, Start Num: 5
Candidate Starts for Rearden_214:
(1, 102764), (Start: 3 @102674 has 1 MA's), (Start: 5 @102653 has 20 MA's), (Start: 6 @102650 has 8 MA's), (8, 102593), (10, 102563), (11, 102548), (12, 102536),

Gene: Redno2_207 Start: 101728, Stop: 101537, Start Num: 5
Candidate Starts for Redno2_207:
(1, 101836), (Start: 3 @101746 has 1 MA's), (Start: 5 @101728 has 20 MA's), (Start: 6 @101725 has 8 MA's), (8, 101668), (9, 101665), (11, 101623), (12, 101611), (13, 101593),

Gene: Redno2_204 Start: 100900, Stop: 100712, Start Num: 4
Candidate Starts for Redno2_204:
(2, 100924), (Start: 4 @100900 has 26 MA's), (Start: 6 @100897 has 8 MA's), (8, 100840), (11, 100795), (12, 100783),

Gene: Schatzie_208 Start: 103855, Stop: 103667, Start Num: 4
Candidate Starts for Schatzie_208:
(2, 103879), (Start: 4 @103855 has 26 MA's), (Start: 6 @103852 has 8 MA's), (8, 103795), (11, 103750), (12, 103738),

Gene: Shaboozey_214 Start: 101786, Stop: 101595, Start Num: 5

Candidate Starts for Shaboozey_214:
(1, 101897), (Start: 3 @101807 has 1 MA's), (Start: 5 @101786 has 20 MA's), (Start: 6 @101783 has 8 MA's), (8, 101726), (9, 101723), (11, 101681), (12, 101669), (13, 101651),

Gene: Shaboozey_211 Start: 100958, Stop: 100770, Start Num: 4
Candidate Starts for Shaboozey_211:
(2, 100982), (Start: 4 @100958 has 26 MA's), (Start: 6 @100955 has 8 MA's), (8, 100898), (11, 100853), (12, 100841),

Gene: Squint_213 Start: 102776, Stop: 102585, Start Num: 5
Candidate Starts for Squint_213:
(Start: 3 @102797 has 1 MA's), (Start: 5 @102776 has 20 MA's), (Start: 6 @102773 has 8 MA's), (8, 102716), (9, 102713), (11, 102671), (12, 102659), (13, 102641),

Gene: Squint_210 Start: 101945, Stop: 101760, Start Num: 6
Candidate Starts for Squint_210:
(2, 101972), (Start: 4 @101948 has 26 MA's), (Start: 6 @101945 has 8 MA's), (8, 101888), (11, 101843), (12, 101831),

Gene: Superphikiman_215 Start: 102840, Stop: 102652, Start Num: 5
Candidate Starts for Superphikiman_215:
(Start: 3 @102861 has 1 MA's), (Start: 5 @102840 has 20 MA's), (Start: 6 @102837 has 8 MA's), (8, 102780), (10, 102750), (11, 102735), (12, 102723),

Gene: Thibault_190 Start: 99763, Stop: 99623, Start Num: 7
Candidate Starts for Thibault_190:
(Start: 7 @99763 has 4 MA's), (8, 99751), (10, 99721), (11, 99706), (12, 99694),

Gene: ThreeRngTarjay_215 Start: 106350, Stop: 106141, Start Num: 3
Candidate Starts for ThreeRngTarjay_215:
(1, 106440), (Start: 3 @106350 has 1 MA's), (Start: 5 @106332 has 20 MA's), (Start: 6 @106329 has 8 MA's), (8, 106272), (9, 106269), (11, 106227), (12, 106215), (13, 106197),

Gene: ThreeRngTarjay_212 Start: 105504, Stop: 105316, Start Num: 4
Candidate Starts for ThreeRngTarjay_212:
(2, 105528), (Start: 4 @105504 has 26 MA's), (8, 105444), (11, 105399), (12, 105387),

Gene: Wanda_213 Start: 102267, Stop: 102079, Start Num: 4
Candidate Starts for Wanda_213:
(2, 102291), (Start: 4 @102267 has 26 MA's), (Start: 6 @102264 has 8 MA's), (8, 102207), (11, 102162), (12, 102150),

Gene: Xiaokay_204 Start: 104157, Stop: 103969, Start Num: 5
Candidate Starts for Xiaokay_204:
(1, 104268), (Start: 3 @104178 has 1 MA's), (Start: 5 @104157 has 20 MA's), (Start: 6 @104154 has 8 MA's), (8, 104097), (10, 104067), (11, 104052), (12, 104040),

Gene: Yeet_206 Start: 103099, Stop: 102911, Start Num: 4
Candidate Starts for Yeet_206:
(2, 103123), (Start: 4 @103099 has 26 MA's), (Start: 6 @103096 has 8 MA's), (8, 103039), (11, 102994), (12, 102982),

Gene: Yeet_209 Start: 103927, Stop: 103736, Start Num: 5

Candidate Starts for Yeet_209:
(1, 104035), (Start: 3 @103945 has 1 MA's), (Start: 5 @103927 has 20 MA's), (Start: 6 @103924 has 8 MA's), (8, 103867), (9, 103864), (11, 103822), (12, 103810), (13, 103792),

Gene: Zelink_208 Start: 104062, Stop: 103871, Start Num: 5
Candidate Starts for Zelink_208:
(Start: 3 @104083 has 1 MA's), (Start: 5 @104062 has 20 MA's), (Start: 6 @104059 has 8 MA's), (8, 104002), (9, 103999), (11, 103957), (12, 103945), (13, 103927),

Gene: Zelink_205 Start: 103234, Stop: 103046, Start Num: 4
Candidate Starts for Zelink_205:
(2, 103258), (Start: 4 @103234 has 26 MA's), (Start: 6 @103231 has 8 MA's), (8, 103174), (10, 103144), (11, 103129), (12, 103117),