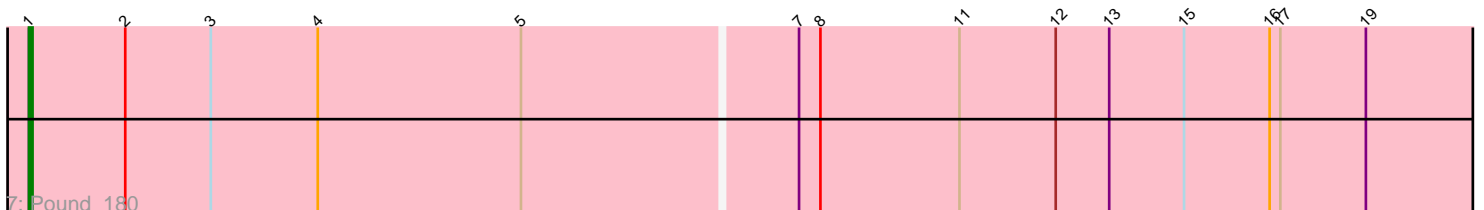
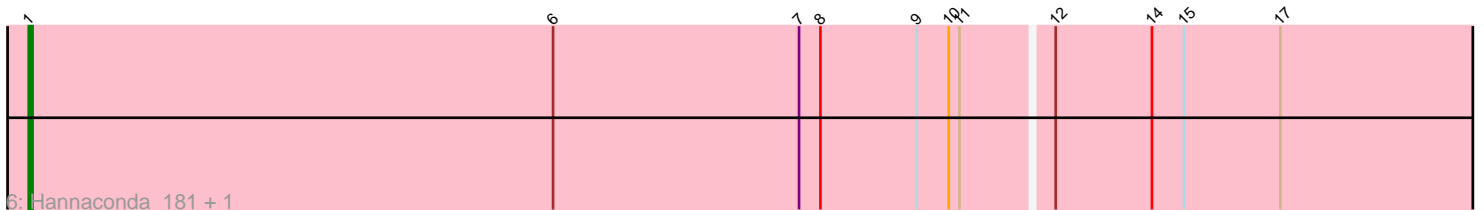
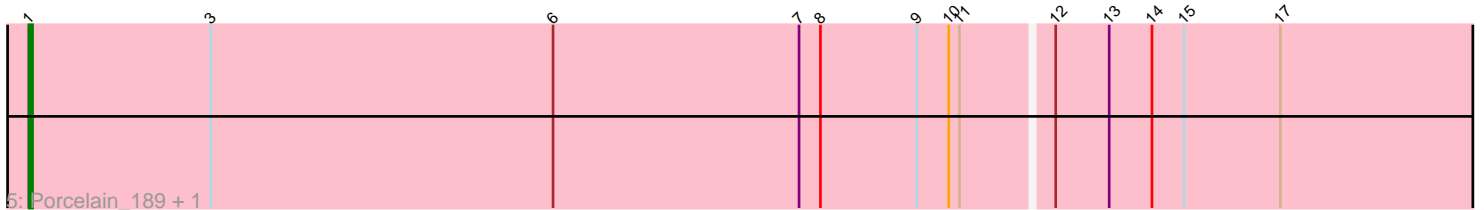
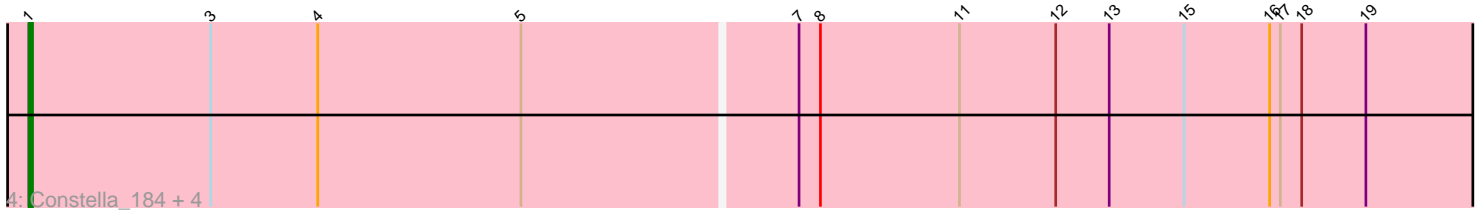
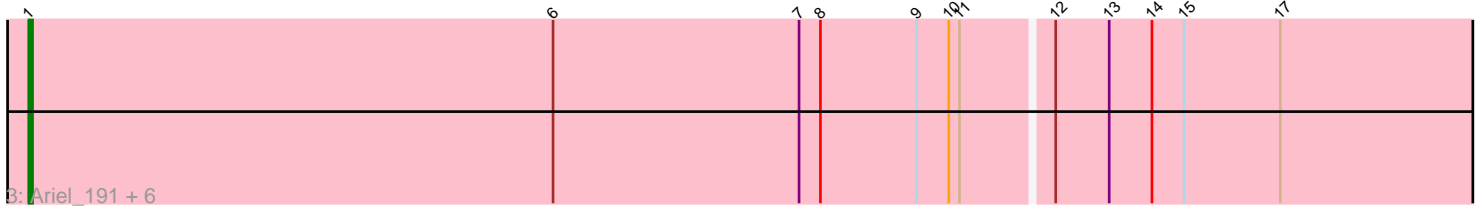
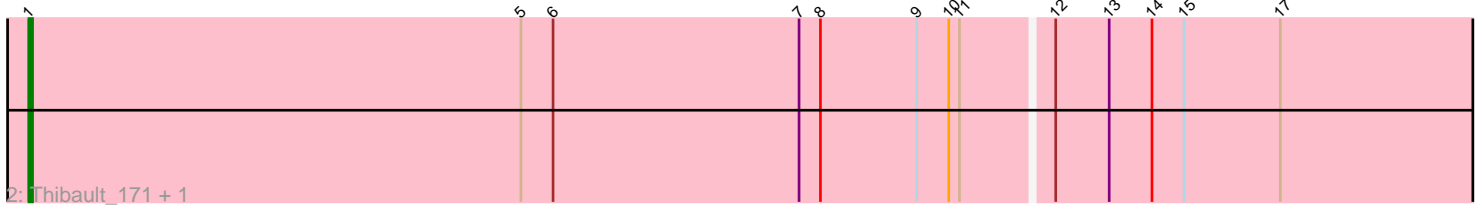
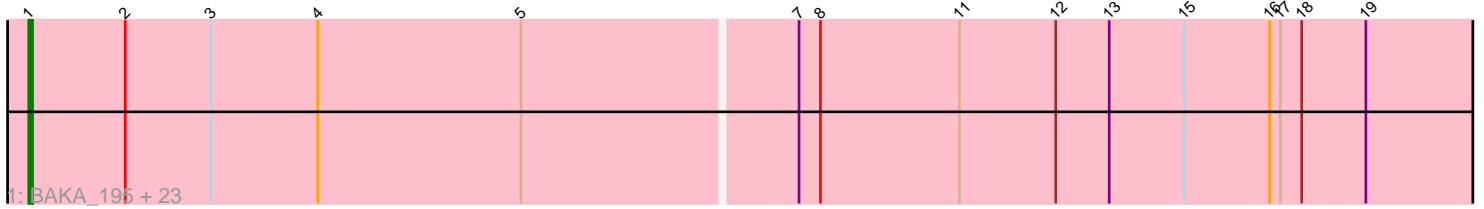


Pham 2216



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 2216 Report

This analysis was run 07/09/24 on database version 566.

Pham number 2216 has 43 members, 4 are drafts.

Phages represented in each track:

- Track 1 : BAKA_195, Duke13_190, DmpstrDiver_188, Zelink_181, NihilNomen_190, HokkenD_182, JuicyJay_183, Beem_190, Redno2_181, Kalah2_186, Schatzie_183, Phoebus_189, Wanda_186, Bobby_176, Dallas_188, Halley_189, Ejimix_178, Klein_193, Bombitas_174, Bagrid_196, Yeet_179, EricMillard_185, Optimus_187, Minerva_189
- Track 2 : Thibault_171, Gonephishing_183
- Track 3 : Ariel_191, Squint_185, LittleE_192, Omega_197, Courthouse_187, MiaZeal_193, Superphikiman_188
- Track 4 : Constella_184, Odette_191, Hughesyang_186, ThreeRngTarjay_187, Dove_181
- Track 5 : Porcelain_189, Lucky2013_185
- Track 6 : Hannaconda_181, KashFlow_186
- Track 7 : Pound_180

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 39 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_191, BAKA_195, Bagrid_196, Beem_190, Bobby_176, Bombitas_174, Constella_184, Courthouse_187, Dallas_188, DmpstrDiver_188, Dove_181, Duke13_190, Ejimix_178, EricMillard_185, Gonephishing_183, Halley_189, Hannaconda_181, HokkenD_182, Hughesyang_186, JuicyJay_183, Kalah2_186, KashFlow_186, Klein_193, LittleE_192, Lucky2013_185, MiaZeal_193, Minerva_189, NihilNomen_190, Odette_191, Omega_197, Optimus_187, Phoebus_189, Porcelain_189, Pound_180, Redno2_181, Schatzie_183, Squint_185, Superphikiman_188, Thibault_171, ThreeRngTarjay_187, Wanda_186, Yeet_179, Zelink_181,

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 1:

- Found in 43 of 43 (100.0%) of genes in pham
- Manual Annotations of this start: 39 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_191 (J), BAKA_195 (J), Bagrid_196 (J), Beem_190 (J), Bobby_176 (J), Bombitas_174 (J), Constella_184 (J), Courthouse_187 (J), Dallas_188 (J), DmpstrDiver_188 (J), Dove_181 (J), Duke13_190 (J), Ejimix_178 (J), EricMillard_185 (J), Gonephishing_183 (J), Halley_189 (J), Hannaconda_181 (J), HokkenD_182 (J), Hughesyang_186 (J), JuicyJay_183 (J), Kalah2_186 (J), KashFlow_186 (J), Klein_193 (J), LittleE_192 (J), Lucky2013_185 (J), MiaZeal_193 (J), Minerva_189 (J), NihilNomen_190 (J), Odette_191 (J), Omega_197 (J), Optimus_187 (J), Phoebus_189 (J), Porcelain_189 (J), Pound_180 (J), Redno2_181 (J), Schatzie_183 (J), Squint_185 (J), Superphikiman_188 (J), Thibault_171 (J), ThreeRngTarjay_187 (J), Wanda_186 (J), Yeet_179 (J), Zelink_181 (J),

Summary by clusters:

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 1 was manually annotated 39 times for cluster J.

Gene Information:

Gene: Ariel_191 Start: 92881, Stop: 93291, Start Num: 1

Candidate Starts for Ariel_191:

(Start: 1 @92881 has 39 MA's), (6, 93028), (7, 93097), (8, 93103), (9, 93130), (10, 93139), (11, 93142), (12, 93166), (13, 93181), (14, 93193), (15, 93202), (17, 93229),

Gene: BAKA_195 Start: 97396, Stop: 97806, Start Num: 1

Candidate Starts for BAKA_195:

(Start: 1 @97396 has 39 MA's), (2, 97423), (3, 97447), (4, 97477), (5, 97534), (7, 97609), (8, 97615), (11, 97654), (12, 97681), (13, 97696), (15, 97717), (16, 97741), (17, 97744), (18, 97750), (19, 97768),

Gene: Bagrid_196 Start: 97701, Stop: 98111, Start Num: 1

Candidate Starts for Bagrid_196:

(Start: 1 @97701 has 39 MA's), (2, 97728), (3, 97752), (4, 97782), (5, 97839), (7, 97914), (8, 97920), (11, 97959), (12, 97986), (13, 98001), (15, 98022), (16, 98046), (17, 98049), (18, 98055), (19, 98073),

Gene: Beem_190 Start: 96404, Stop: 96814, Start Num: 1

Candidate Starts for Beem_190:

(Start: 1 @96404 has 39 MA's), (2, 96431), (3, 96455), (4, 96485), (5, 96542), (7, 96617), (8, 96623), (11, 96662), (12, 96689), (13, 96704), (15, 96725), (16, 96749), (17, 96752), (18, 96758), (19, 96776),

Gene: Bobby_176 Start: 95961, Stop: 96371, Start Num: 1

Candidate Starts for Bobby_176:

(Start: 1 @95961 has 39 MA's), (2, 95988), (3, 96012), (4, 96042), (5, 96099), (7, 96174), (8, 96180), (11, 96219), (12, 96246), (13, 96261), (15, 96282), (16, 96306), (17, 96309), (18, 96315), (19, 96333),

Gene: Bombitas_174 Start: 92633, Stop: 93043, Start Num: 1

Candidate Starts for Bombitas_174:

(Start: 1 @92633 has 39 MA's), (2, 92660), (3, 92684), (4, 92714), (5, 92771), (7, 92846), (8, 92852), (11, 92891), (12, 92918), (13, 92933), (15, 92954), (16, 92978), (17, 92981), (18, 92987), (19, 93005),

Gene: Constella_184 Start: 95524, Stop: 95934, Start Num: 1

Candidate Starts for Constella_184:

(Start: 1 @95524 has 39 MA's), (3, 95575), (4, 95605), (5, 95662), (7, 95737), (8, 95743), (11, 95782), (12, 95809), (13, 95824), (15, 95845), (16, 95869), (17, 95872), (18, 95878), (19, 95896),

Gene: Courthouse_187 Start: 93330, Stop: 93740, Start Num: 1

Candidate Starts for Courthouse_187:

(Start: 1 @93330 has 39 MA's), (6, 93477), (7, 93546), (8, 93552), (9, 93579), (10, 93588), (11, 93591), (12, 93615), (13, 93630), (14, 93642), (15, 93651), (17, 93678),

Gene: Dallas_188 Start: 95424, Stop: 95834, Start Num: 1

Candidate Starts for Dallas_188:

(Start: 1 @95424 has 39 MA's), (2, 95451), (3, 95475), (4, 95505), (5, 95562), (7, 95637), (8, 95643), (11, 95682), (12, 95709), (13, 95724), (15, 95745), (16, 95769), (17, 95772), (18, 95778), (19, 95796),

Gene: DmpstrDiver_188 Start: 94969, Stop: 95379, Start Num: 1

Candidate Starts for DmpstrDiver_188:

(Start: 1 @94969 has 39 MA's), (2, 94996), (3, 95020), (4, 95050), (5, 95107), (7, 95182), (8, 95188), (11, 95227), (12, 95254), (13, 95269), (15, 95290), (16, 95314), (17, 95317), (18, 95323), (19, 95341),

Gene: Dove_181 Start: 91385, Stop: 91795, Start Num: 1

Candidate Starts for Dove_181:

(Start: 1 @91385 has 39 MA's), (3, 91436), (4, 91466), (5, 91523), (7, 91598), (8, 91604), (11, 91643), (12, 91670), (13, 91685), (15, 91706), (16, 91730), (17, 91733), (18, 91739), (19, 91757),

Gene: Duke13_190 Start: 95730, Stop: 96140, Start Num: 1

Candidate Starts for Duke13_190:

(Start: 1 @95730 has 39 MA's), (2, 95757), (3, 95781), (4, 95811), (5, 95868), (7, 95943), (8, 95949), (11, 95988), (12, 96015), (13, 96030), (15, 96051), (16, 96075), (17, 96078), (18, 96084), (19, 96102),

Gene: Ejimix_178 Start: 94762, Stop: 95172, Start Num: 1

Candidate Starts for Ejimix_178:

(Start: 1 @94762 has 39 MA's), (2, 94789), (3, 94813), (4, 94843), (5, 94900), (7, 94975), (8, 94981), (11, 95020), (12, 95047), (13, 95062), (15, 95083), (16, 95107), (17, 95110), (18, 95116), (19, 95134),

Gene: EricMillard_185 Start: 96472, Stop: 96882, Start Num: 1

Candidate Starts for EricMillard_185:

(Start: 1 @96472 has 39 MA's), (2, 96499), (3, 96523), (4, 96553), (5, 96610), (7, 96685), (8, 96691), (11, 96730), (12, 96757), (13, 96772), (15, 96793), (16, 96817), (17, 96820), (18, 96826), (19, 96844),

Gene: Gonephishing_183 Start: 94015, Stop: 94425, Start Num: 1

Candidate Starts for Gonephishing_183:

(Start: 1 @94015 has 39 MA's), (5, 94153), (6, 94162), (7, 94231), (8, 94237), (9, 94264), (10, 94273), (11, 94276), (12, 94300), (13, 94315), (14, 94327), (15, 94336), (17, 94363),

Gene: Halley_189 Start: 94930, Stop: 95340, Start Num: 1

Candidate Starts for Halley_189:

(Start: 1 @94930 has 39 MA's), (2, 94957), (3, 94981), (4, 95011), (5, 95068), (7, 95143), (8, 95149), (11, 95188), (12, 95215), (13, 95230), (15, 95251), (16, 95275), (17, 95278), (18, 95284), (19, 95302),

Gene: Hannaconda_181 Start: 95356, Stop: 95766, Start Num: 1

Candidate Starts for Hannaconda_181:

(Start: 1 @95356 has 39 MA's), (6, 95503), (7, 95572), (8, 95578), (9, 95605), (10, 95614), (11, 95617), (12, 95641), (14, 95668), (15, 95677), (17, 95704),

Gene: HokkenD_182 Start: 96858, Stop: 97268, Start Num: 1

Candidate Starts for HokkenD_182:

(Start: 1 @96858 has 39 MA's), (2, 96885), (3, 96909), (4, 96939), (5, 96996), (7, 97071), (8, 97077), (11, 97116), (12, 97143), (13, 97158), (15, 97179), (16, 97203), (17, 97206), (18, 97212), (19, 97230),

Gene: Hughesyang_186 Start: 95799, Stop: 96209, Start Num: 1

Candidate Starts for Hughesyang_186:

(Start: 1 @95799 has 39 MA's), (3, 95850), (4, 95880), (5, 95937), (7, 96012), (8, 96018), (11, 96057), (12, 96084), (13, 96099), (15, 96120), (16, 96144), (17, 96147), (18, 96153), (19, 96171),

Gene: JuicyJay_183 Start: 96359, Stop: 96769, Start Num: 1

Candidate Starts for JuicyJay_183:

(Start: 1 @96359 has 39 MA's), (2, 96386), (3, 96410), (4, 96440), (5, 96497), (7, 96572), (8, 96578), (11, 96617), (12, 96644), (13, 96659), (15, 96680), (16, 96704), (17, 96707), (18, 96713), (19, 96731),

Gene: Kalah2_186 Start: 96696, Stop: 97106, Start Num: 1

Candidate Starts for Kalah2_186:

(Start: 1 @96696 has 39 MA's), (2, 96723), (3, 96747), (4, 96777), (5, 96834), (7, 96909), (8, 96915), (11, 96954), (12, 96981), (13, 96996), (15, 97017), (16, 97041), (17, 97044), (18, 97050), (19, 97068),

Gene: KashFlow_186 Start: 95169, Stop: 95579, Start Num: 1

Candidate Starts for KashFlow_186:

(Start: 1 @95169 has 39 MA's), (6, 95316), (7, 95385), (8, 95391), (9, 95418), (10, 95427), (11, 95430), (12, 95454), (14, 95481), (15, 95490), (17, 95517),

Gene: Klein_193 Start: 95287, Stop: 95697, Start Num: 1

Candidate Starts for Klein_193:

(Start: 1 @95287 has 39 MA's), (2, 95314), (3, 95338), (4, 95368), (5, 95425), (7, 95500), (8, 95506), (11, 95545), (12, 95572), (13, 95587), (15, 95608), (16, 95632), (17, 95635), (18, 95641), (19, 95659),

Gene: LittleE_192 Start: 95568, Stop: 95978, Start Num: 1

Candidate Starts for LittleE_192:

(Start: 1 @95568 has 39 MA's), (6, 95715), (7, 95784), (8, 95790), (9, 95817), (10, 95826), (11, 95829), (12, 95853), (13, 95868), (14, 95880), (15, 95889), (17, 95916),

Gene: Lucky2013_185 Start: 92271, Stop: 92681, Start Num: 1

Candidate Starts for Lucky2013_185:

(Start: 1 @92271 has 39 MA's), (3, 92322), (6, 92418), (7, 92487), (8, 92493), (9, 92520), (10, 92529), (11, 92532), (12, 92556), (13, 92571), (14, 92583), (15, 92592), (17, 92619),

Gene: MiaZeal_193 Start: 93547, Stop: 93957, Start Num: 1

Candidate Starts for MiaZeal_193:

(Start: 1 @93547 has 39 MA's), (6, 93694), (7, 93763), (8, 93769), (9, 93796), (10, 93805), (11, 93808), (12, 93832), (13, 93847), (14, 93859), (15, 93868), (17, 93895),

Gene: Minerva_189 Start: 94923, Stop: 95333, Start Num: 1

Candidate Starts for Minerva_189:

(Start: 1 @94923 has 39 MA's), (2, 94950), (3, 94974), (4, 95004), (5, 95061), (7, 95136), (8, 95142), (11, 95181), (12, 95208), (13, 95223), (15, 95244), (16, 95268), (17, 95271), (18, 95277), (19, 95295),

Gene: NihilNomen_190 Start: 94484, Stop: 94894, Start Num: 1

Candidate Starts for NihilNomen_190:

(Start: 1 @94484 has 39 MA's), (2, 94511), (3, 94535), (4, 94565), (5, 94622), (7, 94697), (8, 94703), (11, 94742), (12, 94769), (13, 94784), (15, 94805), (16, 94829), (17, 94832), (18, 94838), (19, 94856),

Gene: Odette_191 Start: 97553, Stop: 97963, Start Num: 1

Candidate Starts for Odette_191:

(Start: 1 @97553 has 39 MA's), (3, 97604), (4, 97634), (5, 97691), (7, 97766), (8, 97772), (11, 97811), (12, 97838), (13, 97853), (15, 97874), (16, 97898), (17, 97901), (18, 97907), (19, 97925),

Gene: Omega_197 Start: 97070, Stop: 97480, Start Num: 1

Candidate Starts for Omega_197:

(Start: 1 @97070 has 39 MA's), (6, 97217), (7, 97286), (8, 97292), (9, 97319), (10, 97328), (11, 97331), (12, 97355), (13, 97370), (14, 97382), (15, 97391), (17, 97418),

Gene: Optimus_187 Start: 95839, Stop: 96249, Start Num: 1

Candidate Starts for Optimus_187:

(Start: 1 @95839 has 39 MA's), (2, 95866), (3, 95890), (4, 95920), (5, 95977), (7, 96052), (8, 96058), (11, 96097), (12, 96124), (13, 96139), (15, 96160), (16, 96184), (17, 96187), (18, 96193), (19, 96211),

Gene: Phoebus_189 Start: 98318, Stop: 98728, Start Num: 1

Candidate Starts for Phoebus_189:

(Start: 1 @98318 has 39 MA's), (2, 98345), (3, 98369), (4, 98399), (5, 98456), (7, 98531), (8, 98537), (11, 98576), (12, 98603), (13, 98618), (15, 98639), (16, 98663), (17, 98666), (18, 98672), (19, 98690),

Gene: Porcelain_189 Start: 93217, Stop: 93627, Start Num: 1

Candidate Starts for Porcelain_189:

(Start: 1 @93217 has 39 MA's), (3, 93268), (6, 93364), (7, 93433), (8, 93439), (9, 93466), (10, 93475), (11, 93478), (12, 93502), (13, 93517), (14, 93529), (15, 93538), (17, 93565),

Gene: Pound_180 Start: 94121, Stop: 94531, Start Num: 1

Candidate Starts for Pound_180:

(Start: 1 @94121 has 39 MA's), (2, 94148), (3, 94172), (4, 94202), (5, 94259), (7, 94334), (8, 94340), (11, 94379), (12, 94406), (13, 94421), (15, 94442), (16, 94466), (17, 94469), (19, 94493),

Gene: Redno2_181 Start: 92431, Stop: 92841, Start Num: 1

Candidate Starts for Redno2_181:

(Start: 1 @92431 has 39 MA's), (2, 92458), (3, 92482), (4, 92512), (5, 92569), (7, 92644), (8, 92650), (11, 92689), (12, 92716), (13, 92731), (15, 92752), (16, 92776), (17, 92779), (18, 92785), (19, 92803),

Gene: Schatzie_183 Start: 95365, Stop: 95775, Start Num: 1

Candidate Starts for Schatzie_183:

(Start: 1 @95365 has 39 MA's), (2, 95392), (3, 95416), (4, 95446), (5, 95503), (7, 95578), (8, 95584), (11, 95623), (12, 95650), (13, 95665), (15, 95686), (16, 95710), (17, 95713), (18, 95719), (19, 95737),

Gene: Squint_185 Start: 93158, Stop: 93568, Start Num: 1

Candidate Starts for Squint_185:

(Start: 1 @93158 has 39 MA's), (6, 93305), (7, 93374), (8, 93380), (9, 93407), (10, 93416), (11, 93419), (12, 93443), (13, 93458), (14, 93470), (15, 93479), (17, 93506),

Gene: Superphikiman_188 Start: 93025, Stop: 93435, Start Num: 1

Candidate Starts for Superphikiman_188:

(Start: 1 @93025 has 39 MA's), (6, 93172), (7, 93241), (8, 93247), (9, 93274), (10, 93283), (11, 93286), (12, 93310), (13, 93325), (14, 93337), (15, 93346), (17, 93373),

Gene: Thibault_171 Start: 92398, Stop: 92808, Start Num: 1

Candidate Starts for Thibault_171:

(Start: 1 @92398 has 39 MA's), (5, 92536), (6, 92545), (7, 92614), (8, 92620), (9, 92647), (10, 92656), (11, 92659), (12, 92683), (13, 92698), (14, 92710), (15, 92719), (17, 92746),

Gene: ThreeRngTarjay_187 Start: 96903, Stop: 97313, Start Num: 1

Candidate Starts for ThreeRngTarjay_187:

(Start: 1 @96903 has 39 MA's), (3, 96954), (4, 96984), (5, 97041), (7, 97116), (8, 97122), (11, 97161), (12, 97188), (13, 97203), (15, 97224), (16, 97248), (17, 97251), (18, 97257), (19, 97275),

Gene: Wanda_186 Start: 92936, Stop: 93346, Start Num: 1

Candidate Starts for Wanda_186:

(Start: 1 @92936 has 39 MA's), (2, 92963), (3, 92987), (4, 93017), (5, 93074), (7, 93149), (8, 93155), (11, 93194), (12, 93221), (13, 93236), (15, 93257), (16, 93281), (17, 93284), (18, 93290), (19, 93308),

Gene: Yeet_179 Start: 94072, Stop: 94482, Start Num: 1

Candidate Starts for Yeet_179:

(Start: 1 @94072 has 39 MA's), (2, 94099), (3, 94123), (4, 94153), (5, 94210), (7, 94285), (8, 94291), (11, 94330), (12, 94357), (13, 94372), (15, 94393), (16, 94417), (17, 94420), (18, 94426), (19, 94444),

Gene: Zelink_181 Start: 94555, Stop: 94965, Start Num: 1

Candidate Starts for Zelink_181:

(Start: 1 @94555 has 39 MA's), (2, 94582), (3, 94606), (4, 94636), (5, 94693), (7, 94768), (8, 94774), (11, 94813), (12, 94840), (13, 94855), (15, 94876), (16, 94900), (17, 94903), (18, 94909), (19, 94927),