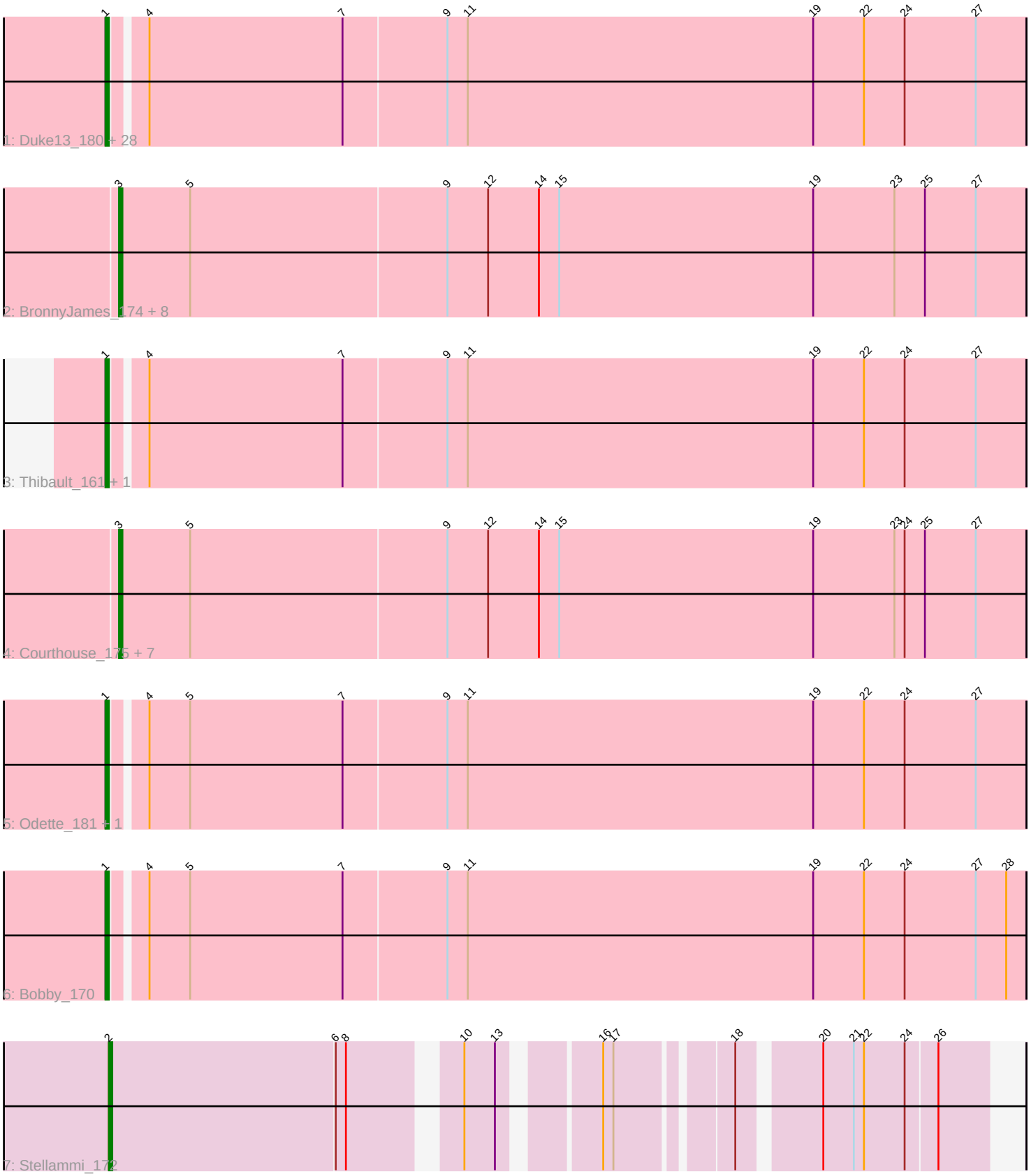
Pham 347698


1: Duke13_180 + 28
2: BronnyJames_174 + 8
3: Thibault_161 + 1
4: Courthouse_175 + 7
5: Odette_181 + 1
6: Bobby_170
7: Stellammi_172

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 347698 Report

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

Pham number 347698 has 52 members, 10 are drafts.

Phages represented in each track:
• Track 1 : Duke13_180, EricMillard_175, Xiaokay_173, HokkenD_172, ThreeRngTarjay_175, Optimus_176, Kalah2_174, Hidrated_167, Beem_178, Ejimix_168, Marleymoo_164, DmpstrDiver_178, Dallas_177, Phoebus_178, Klein_181, Bombitas_164, Halley_178, Minerva_177, Bagrid_186, Redno2_171, BAKA_183, Yeet_169, JuicyJay_172, NihilNomen_179, Constella_173, Wanda_175, Hughesyang_176, Zelink_170, Pound_171
• Track 2 : BronnyJames_174, Lucky2013_174, Porcelain_178, Hannaconda_170, Rearden_178, Shaboozey_177, LittleE_183, Nibley_172, KashFlow_175
• Track 3 : Thibault_161, Dove_164
• Track 4 : Courthouse_175, Omega_186, MiaZeal_181, Gonephishing_172, Superphikiman_176, Squint_172, Ariel_179, Nekros_177
• Track 5 : Odette_181, Schatzie_172
• Track 6 : Bobby_170
• Track 7 : Stellammi_172

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 30 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BAKA_183, Bagrid_186, Beem_178, Bobby_170, Bombitas_164, Constella_173, Dallas_177, DmpstrDiver_178, Dove_164, Duke13_180, Ejimix_168, EricMillard_175, Halley_178, Hidrated_167, HokkenD_172, Hughesyang_176, JuicyJay_172, Kalah2_174, Klein_181, Marleymoo_164, Minerva_177, NihilNomen_179, Odette_181, Optimus_176, Phoebus_178, Pound_171, Redno2_171, Schatzie_172, Thibault_161, ThreeRngTarjay_175, Wanda_175, Xiaokay_173, Yeet_169, Zelink_170,

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

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

• Ariel_179, BronnyJames_174, Courthouse_175, Gonephishing_172, Hannaconda_170, KashFlow_175, LittleE_183, Lucky2013_174, MiaZeal_181, Nekros_177, Nibley_172, Omega_186, Porcelain_178, Rearden_178, Shaboozey_177, Squint_172, Stellammi_172, Superphikiman_176,

Summary by start number:

Start 1:
• Found in 34 of 52 (65.4%) of genes in pham
• Manual Annotations of this start: 30 of 42
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BAKA_183 (J), Bagrid_186 (J), Beem_178 (J), Bobby_170 (J), Bombitas_164 (J), Constella_173 (J), Dallas_177 (J), DmpstrDiver_178 (J), Dove_164 (J), Duke13_180 (J), Ejimix_168 (J), EricMillard_175 (J), Halley_178 (J), Hidrated_167 (J), HokkenD_172 (J), Hughesyang_176 (J), JuicyJay_172 (J), Kalah2_174 (J), Klein_181 (J), Marleymoo_164 (J), Minerva_177 (J), NihilNomen_179 (J), Odette_181 (J), Optimus_176 (J), Phoebus_178 (J), Pound_171 (J), Redno2_171 (J), Schatzie_172 (J), Thibault_161 (J), ThreeRngTarjay_175 (J), Wanda_175 (J), Xiaokay_173 (J), Yeet_169 (J), Zelink_170 (J),

Start 2:
• Found in 1 of 52 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 42
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stellammi_172 (UNK),

Start 3:
• Found in 17 of 52 (32.7%) of genes in pham
• Manual Annotations of this start: 11 of 42
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ariel_179 (J), BronnyJames_174 (J), Courthouse_175 (J), Gonephishing_172 (J), Hannaconda_170 (J), KashFlow_175 (J), LittleE_183 (J), Lucky2013_174 (J), MiaZeal_181 (J), Nekros_177 (J), Nibley_172 (J), Omega_186 (J), Porcelain_178 (J), Rearden_178 (J), Shaboozey_177 (J), Squint_172 (J), Superphikiman_176 (J),

Summary by clusters:

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

Info for manual annotations of cluster J:
•Start number 1 was manually annotated 30 times for cluster J.
•Start number 3 was manually annotated 11 times for cluster J.

Info for manual annotations of cluster UNK:
•Start number 2 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: Ariel_179 Start: 88944, Stop: 89210, Start Num: 3

Candidate Starts for Ariel_179:
(Start: 3 @88944 has 11 MA's), (5, 88965), (9, 89040), (12, 89052), (14, 89067), (15, 89073), (19, 89148), (23, 89172), (24, 89175), (25, 89181), (27, 89196),

Gene: BAKA_183 Start: 94212, Stop: 94478, Start Num: 1
Candidate Starts for BAKA_183:
(Start: 1 @94212 has 30 MA's), (4, 94221), (7, 94278), (9, 94308), (11, 94314), (19, 94416), (22, 94431), (24, 94443), (27, 94464),

Gene: Bagrid_186 Start: 94678, Stop: 94944, Start Num: 1
Candidate Starts for Bagrid_186:
(Start: 1 @94678 has 30 MA's), (4, 94687), (7, 94744), (9, 94774), (11, 94780), (19, 94882), (22, 94897), (24, 94909), (27, 94930),

Gene: Beem_178 Start: 93367, Stop: 93633, Start Num: 1
Candidate Starts for Beem_178:
(Start: 1 @93367 has 30 MA's), (4, 93376), (7, 93433), (9, 93463), (11, 93469), (19, 93571), (22, 93586), (24, 93598), (27, 93619),

Gene: Bobby_170 Start: 94464, Stop: 94730, Start Num: 1
Candidate Starts for Bobby_170:
(Start: 1 @94464 has 30 MA's), (4, 94473), (5, 94485), (7, 94530), (9, 94560), (11, 94566), (19, 94668), (22, 94683), (24, 94695), (27, 94716), (28, 94725),

Gene: Bombitas_164 Start: 89597, Stop: 89863, Start Num: 1
Candidate Starts for Bombitas_164:
(Start: 1 @89597 has 30 MA's), (4, 89606), (7, 89663), (9, 89693), (11, 89699), (19, 89801), (22, 89816), (24, 89828), (27, 89849),

Gene: BronnyJames_174 Start: 89638, Stop: 89904, Start Num: 3
Candidate Starts for BronnyJames_174:
(Start: 3 @89638 has 11 MA's), (5, 89659), (9, 89734), (12, 89746), (14, 89761), (15, 89767), (19, 89842), (23, 89866), (25, 89875), (27, 89890),

Gene: Constella_173 Start: 92101, Stop: 92367, Start Num: 1
Candidate Starts for Constella_173:
(Start: 1 @92101 has 30 MA's), (4, 92110), (7, 92167), (9, 92197), (11, 92203), (19, 92305), (22, 92320), (24, 92332), (27, 92353),

Gene: Courthouse_175 Start: 89388, Stop: 89654, Start Num: 3
Candidate Starts for Courthouse_175:
(Start: 3 @89388 has 11 MA's), (5, 89409), (9, 89484), (12, 89496), (14, 89511), (15, 89517), (19, 89592), (23, 89616), (24, 89619), (25, 89625), (27, 89640),

Gene: Dallas_177 Start: 92590, Stop: 92856, Start Num: 1
Candidate Starts for Dallas_177:
(Start: 1 @92590 has 30 MA's), (4, 92599), (7, 92656), (9, 92686), (11, 92692), (19, 92794), (22, 92809), (24, 92821), (27, 92842),

Gene: DmpstrDiver_178 Start: 92034, Stop: 92300, Start Num: 1
Candidate Starts for DmpstrDiver_178:
(Start: 1 @92034 has 30 MA's), (4, 92043), (7, 92100), (9, 92130), (11, 92136), (19, 92238), (22, 92253), (24, 92265), (27, 92286),

Gene: Dove_164 Start: 87953, Stop: 88219, Start Num: 1
Candidate Starts for Dove_164:
(Start: 1 @87953 has 30 MA's), (4, 87962), (7, 88019), (9, 88049), (11, 88055), (19, 88157), (22, 88172), (24, 88184), (27, 88205),

Gene: Duke13_180 Start: 92708, Stop: 92974, Start Num: 1
Candidate Starts for Duke13_180:
(Start: 1 @92708 has 30 MA's), (4, 92717), (7, 92774), (9, 92804), (11, 92810), (19, 92912), (22, 92927), (24, 92939), (27, 92960),

Gene: Ejimix_168 Start: 91578, Stop: 91844, Start Num: 1
Candidate Starts for Ejimix_168:
(Start: 1 @91578 has 30 MA's), (4, 91587), (7, 91644), (9, 91674), (11, 91680), (19, 91782), (22, 91797), (24, 91809), (27, 91830),

Gene: EricMillard_175 Start: 93288, Stop: 93554, Start Num: 1
Candidate Starts for EricMillard_175:
(Start: 1 @93288 has 30 MA's), (4, 93297), (7, 93354), (9, 93384), (11, 93390), (19, 93492), (22, 93507), (24, 93519), (27, 93540),

Gene: Gonephishing_172 Start: 90205, Stop: 90471, Start Num: 3
Candidate Starts for Gonephishing_172:
(Start: 3 @90205 has 11 MA's), (5, 90226), (9, 90301), (12, 90313), (14, 90328), (15, 90334), (19, 90409), (23, 90433), (24, 90436), (25, 90442), (27, 90457),

Gene: Halley_178 Start: 91894, Stop: 92160, Start Num: 1
Candidate Starts for Halley_178:
(Start: 1 @91894 has 30 MA's), (4, 91903), (7, 91960), (9, 91990), (11, 91996), (19, 92098), (22, 92113), (24, 92125), (27, 92146),

Gene: Hannaconda_170 Start: 91879, Stop: 92145, Start Num: 3
Candidate Starts for Hannaconda_170:
(Start: 3 @91879 has 11 MA's), (5, 91900), (9, 91975), (12, 91987), (14, 92002), (15, 92008), (19, 92083), (23, 92107), (25, 92116), (27, 92131),

Gene: Hidrated_167 Start: 93608, Stop: 93874, Start Num: 1
Candidate Starts for Hidrated_167:
(Start: 1 @93608 has 30 MA's), (4, 93617), (7, 93674), (9, 93704), (11, 93710), (19, 93812), (22, 93827), (24, 93839), (27, 93860),

Gene: HokkenD_172 Start: 93675, Stop: 93941, Start Num: 1
Candidate Starts for HokkenD_172:
(Start: 1 @93675 has 30 MA's), (4, 93684), (7, 93741), (9, 93771), (11, 93777), (19, 93879), (22, 93894), (24, 93906), (27, 93927),

Gene: Hughesyang_176 Start: 92376, Stop: 92642, Start Num: 1
Candidate Starts for Hughesyang_176:
(Start: 1 @92376 has 30 MA's), (4, 92385), (7, 92442), (9, 92472), (11, 92478), (19, 92580), (22, 92595), (24, 92607), (27, 92628),

Gene: JuicyJay_172 Start: 93322, Stop: 93588, Start Num: 1
Candidate Starts for JuicyJay_172:

(Start: 1 @93322 has 30 MA's), (4, 93331), (7, 93388), (9, 93418), (11, 93424), (19, 93526), (22, 93541), (24, 93553), (27, 93574),

Gene: Kalah2_174 Start: 93660, Stop: 93926, Start Num: 1
Candidate Starts for Kalah2_174:
(Start: 1 @93660 has 30 MA's), (4, 93669), (7, 93726), (9, 93756), (11, 93762), (19, 93864), (22, 93879), (24, 93891), (27, 93912),

Gene: KashFlow_175 Start: 91692, Stop: 91958, Start Num: 3
Candidate Starts for KashFlow_175:
(Start: 3 @91692 has 11 MA's), (5, 91713), (9, 91788), (12, 91800), (14, 91815), (15, 91821), (19, 91896), (23, 91920), (25, 91929), (27, 91944),

Gene: Klein_181 Start: 92103, Stop: 92369, Start Num: 1
Candidate Starts for Klein_181:
(Start: 1 @92103 has 30 MA's), (4, 92112), (7, 92169), (9, 92199), (11, 92205), (19, 92307), (22, 92322), (24, 92334), (27, 92355),

Gene: LittleE_183 Start: 92841, Stop: 93107, Start Num: 3
Candidate Starts for LittleE_183:
(Start: 3 @92841 has 11 MA's), (5, 92862), (9, 92937), (12, 92949), (14, 92964), (15, 92970), (19, 93045), (23, 93069), (25, 93078), (27, 93093),

Gene: Lucky2013_174 Start: 88459, Stop: 88725, Start Num: 3
Candidate Starts for Lucky2013_174:
(Start: 3 @88459 has 11 MA's), (5, 88480), (9, 88555), (12, 88567), (14, 88582), (15, 88588), (19, 88663), (23, 88687), (25, 88696), (27, 88711),

Gene: Marleymoo_164 Start: 90512, Stop: 90778, Start Num: 1
Candidate Starts for Marleymoo_164:
(Start: 1 @90512 has 30 MA's), (4, 90521), (7, 90578), (9, 90608), (11, 90614), (19, 90716), (22, 90731), (24, 90743), (27, 90764),

Gene: MiaZeal_181 Start: 89606, Stop: 89872, Start Num: 3
Candidate Starts for MiaZeal_181:
(Start: 3 @89606 has 11 MA's), (5, 89627), (9, 89702), (12, 89714), (14, 89729), (15, 89735), (19, 89810), (23, 89834), (24, 89837), (25, 89843), (27, 89858),

Gene: Minerva_177 Start: 91740, Stop: 92006, Start Num: 1
Candidate Starts for Minerva_177:
(Start: 1 @91740 has 30 MA's), (4, 91749), (7, 91806), (9, 91836), (11, 91842), (19, 91944), (22, 91959), (24, 91971), (27, 91992),

Gene: Nekros_177 Start: 92497, Stop: 92763, Start Num: 3
Candidate Starts for Nekros_177:
(Start: 3 @92497 has 11 MA's), (5, 92518), (9, 92593), (12, 92605), (14, 92620), (15, 92626), (19, 92701), (23, 92725), (24, 92728), (25, 92734), (27, 92749),

Gene: Nibley_172 Start: 89215, Stop: 89481, Start Num: 3
Candidate Starts for Nibley_172:
(Start: 3 @89215 has 11 MA's), (5, 89236), (9, 89311), (12, 89323), (14, 89338), (15, 89344), (19, 89419), (23, 89443), (25, 89452), (27, 89467),

Gene: NihilNomen_179 Start: 91448, Stop: 91714, Start Num: 1
Candidate Starts for NihilNomen_179:
(Start: 1 @91448 has 30 MA's), (4, 91457), (7, 91514), (9, 91544), (11, 91550), (19, 91652), (22, 91667), (24, 91679), (27, 91700),

Gene: Odette_181 Start: 94129, Stop: 94395, Start Num: 1
Candidate Starts for Odette_181:
(Start: 1 @94129 has 30 MA's), (4, 94138), (5, 94150), (7, 94195), (9, 94225), (11, 94231), (19, 94333), (22, 94348), (24, 94360), (27, 94381),

Gene: Omega_186 Start: 94073, Stop: 94339, Start Num: 3
Candidate Starts for Omega_186:
(Start: 3 @94073 has 11 MA's), (5, 94094), (9, 94169), (12, 94181), (14, 94196), (15, 94202), (19, 94277), (23, 94301), (24, 94304), (25, 94310), (27, 94325),

Gene: Optimus_176 Start: 92655, Stop: 92921, Start Num: 1
Candidate Starts for Optimus_176:
(Start: 1 @92655 has 30 MA's), (4, 92664), (7, 92721), (9, 92751), (11, 92757), (19, 92859), (22, 92874), (24, 92886), (27, 92907),

Gene: Phoebus_178 Start: 95135, Stop: 95401, Start Num: 1
Candidate Starts for Phoebus_178:
(Start: 1 @95135 has 30 MA's), (4, 95144), (7, 95201), (9, 95231), (11, 95237), (19, 95339), (22, 95354), (24, 95366), (27, 95387),

Gene: Porcelain_178 Start: 89405, Stop: 89671, Start Num: 3
Candidate Starts for Porcelain_178:
(Start: 3 @89405 has 11 MA's), (5, 89426), (9, 89501), (12, 89513), (14, 89528), (15, 89534), (19, 89609), (23, 89633), (25, 89642), (27, 89657),

Gene: Pound_171 Start: 91184, Stop: 91450, Start Num: 1
Candidate Starts for Pound_171:
(Start: 1 @91184 has 30 MA's), (4, 91193), (7, 91250), (9, 91280), (11, 91286), (19, 91388), (22, 91403), (24, 91415), (27, 91436),

Gene: Rearden_178 Start: 90556, Stop: 90822, Start Num: 3
Candidate Starts for Rearden_178:
(Start: 3 @90556 has 11 MA's), (5, 90577), (9, 90652), (12, 90664), (14, 90679), (15, 90685), (19, 90760), (23, 90784), (25, 90793), (27, 90808),

Gene: Redno2_171 Start: 89248, Stop: 89514, Start Num: 1
Candidate Starts for Redno2_171:
(Start: 1 @89248 has 30 MA's), (4, 89257), (7, 89314), (9, 89344), (11, 89350), (19, 89452), (22, 89467), (24, 89479), (27, 89500),

Gene: Schatzie_172 Start: 92183, Stop: 92449, Start Num: 1
Candidate Starts for Schatzie_172:
(Start: 1 @92183 has 30 MA's), (4, 92192), (5, 92204), (7, 92249), (9, 92279), (11, 92285), (19, 92387), (22, 92402), (24, 92414), (27, 92435),

Gene: Shaboozey_177 Start: 89659, Stop: 89925, Start Num: 3
Candidate Starts for Shaboozey_177:

(Start: 3 @89659 has 11 MA's), (5, 89680), (9, 89755), (12, 89767), (14, 89782), (15, 89788), (19, 89863), (23, 89887), (25, 89896), (27, 89911),

Gene: Squint_172 Start: 89668, Stop: 89934, Start Num: 3
Candidate Starts for Squint_172:
(Start: 3 @89668 has 11 MA's), (5, 89689), (9, 89764), (12, 89776), (14, 89791), (15, 89797), (19, 89872), (23, 89896), (24, 89899), (25, 89905), (27, 89920),

Gene: Stellammi_172 Start: 77439, Stop: 77669, Start Num: 2
Candidate Starts for Stellammi_172:
(Start: 2 @77439 has 1 MA's), (6, 77505), (8, 77508), (10, 77535), (13, 77544), (16, 77568), (17, 77571), (18, 77601), (20, 77622), (21, 77631), (22, 77634), (24, 77646), (26, 77655),

Gene: Superphikiman_176 Start: 89084, Stop: 89350, Start Num: 3
Candidate Starts for Superphikiman_176:
(Start: 3 @89084 has 11 MA's), (5, 89105), (9, 89180), (12, 89192), (14, 89207), (15, 89213), (19, 89288), (23, 89312), (24, 89315), (25, 89321), (27, 89336),

Gene: Thibault_161 Start: 89063, Stop: 89329, Start Num: 1
Candidate Starts for Thibault_161:
(Start: 1 @89063 has 30 MA's), (4, 89072), (7, 89129), (9, 89159), (11, 89165), (19, 89267), (22, 89282), (24, 89294), (27, 89315),

Gene: ThreeRngTarjay_175 Start: 93479, Stop: 93745, Start Num: 1
Candidate Starts for ThreeRngTarjay_175:
(Start: 1 @93479 has 30 MA's), (4, 93488), (7, 93545), (9, 93575), (11, 93581), (19, 93683), (22, 93698), (24, 93710), (27, 93731),

Gene: Wanda_175 Start: 89752, Stop: 90018, Start Num: 1
Candidate Starts for Wanda_175:
(Start: 1 @89752 has 30 MA's), (4, 89761), (7, 89818), (9, 89848), (11, 89854), (19, 89956), (22, 89971), (24, 89983), (27, 90004),

Gene: Xiaokay_173 Start: 93083, Stop: 93349, Start Num: 1
Candidate Starts for Xiaokay_173:
(Start: 1 @93083 has 30 MA's), (4, 93092), (7, 93149), (9, 93179), (11, 93185), (19, 93287), (22, 93302), (24, 93314), (27, 93335),

Gene: Yeet_169 Start: 91036, Stop: 91302, Start Num: 1
Candidate Starts for Yeet_169:
(Start: 1 @91036 has 30 MA's), (4, 91045), (7, 91102), (9, 91132), (11, 91138), (19, 91240), (22, 91255), (24, 91267), (27, 91288),

Gene: Zelink_170 Start: 91371, Stop: 91637, Start Num: 1
Candidate Starts for Zelink_170:
(Start: 1 @91371 has 30 MA's), (4, 91380), (7, 91437), (9, 91467), (11, 91473), (19, 91575), (22, 91590), (24, 91602), (27, 91623),