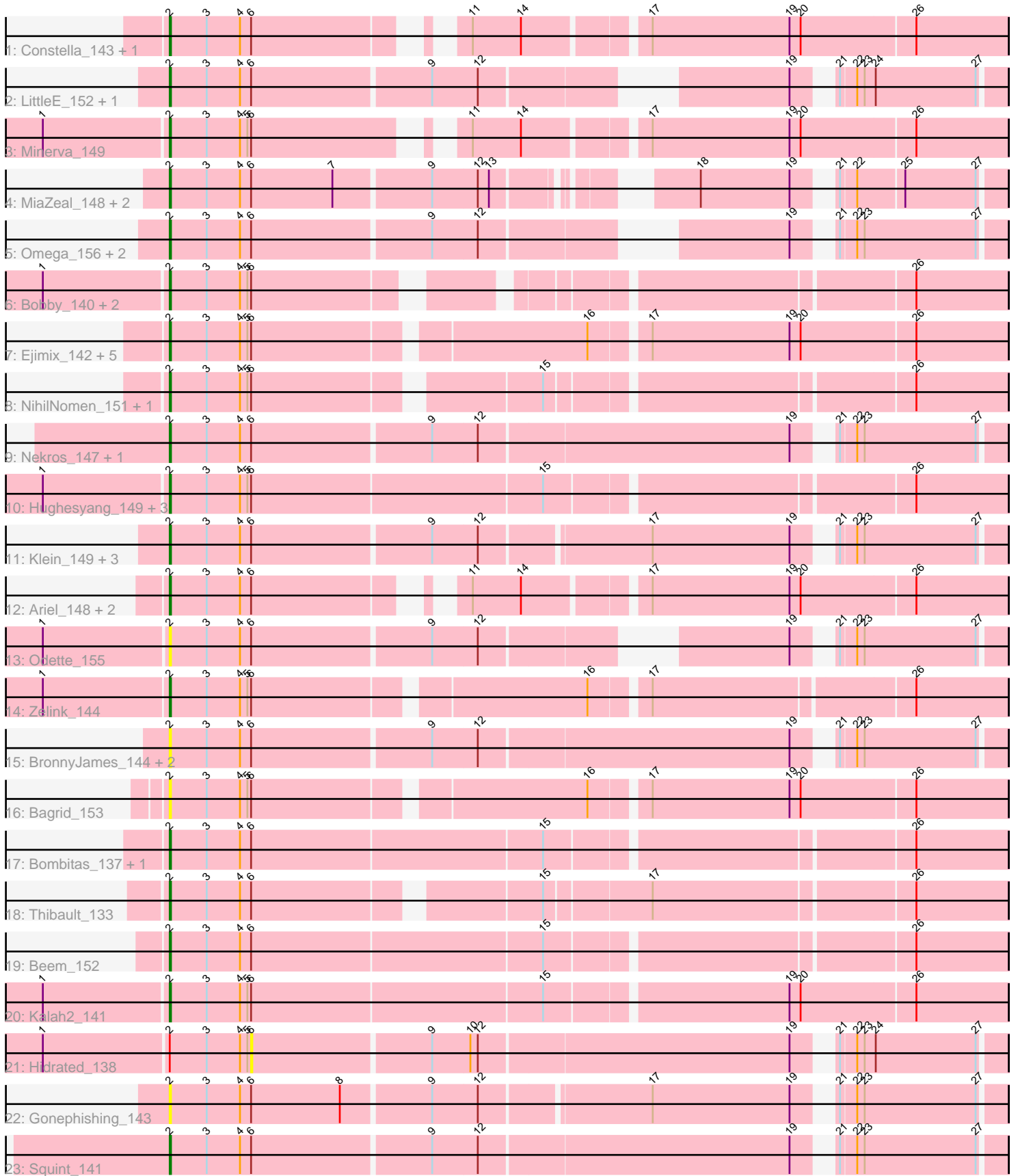


Pham 311706



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 311706 Report

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

Pham number 311706 has 49 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Constella_143, Yeet_143
- Track 2 : LittleE_152, HokkenD_144
- Track 3 : Minerva_149
- Track 4 : MiaZeal_148, Porcelain_145, Lucky2013_141
- Track 5 : Omega_156, Optimus_143, Hannaconda_143
- Track 6 : Bobby_140, Marleymoo_135, Wanda_149
- Track 7 : Ejimix_142, DmpstrDiver_150, Halley_151, Dallas_150, Pound_141, Schatzie_145
- Track 8 : NihilNomen_151, Redno2_144
- Track 9 : Nekros_147, KashFlow_149
- Track 10 : Hughesyang_149, Phoebus_150, Dove_136, ThreeRngTarjay_145
- Track 11 : Klein_149, EricMillard_144, BAKA_152, Duke13_148
- Track 12 : Ariel_148, Courthouse_144, Superphikiman_146
- Track 13 : Odette_155
- Track 14 : Zelink_144
- Track 15 : BronnyJames_144, Nibley_143, Shaboozey_147
- Track 16 : Bagrid_153
- Track 17 : Bombitas_137, JuicyJay_145
- Track 18 : Thibault_133
- Track 19 : Beem_152
- Track 20 : Kalah2_141
- Track 21 : Hidrated_138
- Track 22 : Gonephishing_143
- Track 23 : Squint_141

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

The start number called the most often in the published annotations is 2, it was called in 40 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_148, BAKA_152, Bagrid_153, Beem_152, Bobby_140, Bombitas_137, BronnyJames_144, Constella_143, Courthouse_144, Dallas_150, DmpstrDiver_150, Dove_136, Duke13_148, Ejimix_142, EricMillard_144, Gonephishing_143,

Halley_151, Hannaconda_143, HokkenD_144, Hughesyang_149, JuicyJay_145, Kalah2_141, KashFlow_149, Klein_149, LittleE_152, Lucky2013_141, Marleymoo_135, MiaZeal_148, Minerva_149, Nekros_147, Nibley_143, NihilNomen_151, Odette_155, Omega_156, Optimus_143, Phoebus_150, Porcelain_145, Pound_141, Redno2_144, Schatzie_145, Shaboozey_147, Squint_141, Superphikiman_146, Thibault_133, ThreeRngTarjay_145, Wanda_149, Yeet_143, Zelink_144,

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

- Hidrated_138,

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

-

Summary by start number:

Start 2:

- Found in 49 of 49 (100.0%) of genes in pham
- Manual Annotations of this start: 40 of 40
- Called 98.0% of time when present
- Phage (with cluster) where this start called: Ariel_148 (J), BAKA_152 (J), Bagrid_153 (J), Beem_152 (J), Bobby_140 (J), Bombitas_137 (J), BronnyJames_144 (J), Constella_143 (J), Courthouse_144 (J), Dallas_150 (J), DmpstrDiver_150 (J), Dove_136 (J), Duke13_148 (J), Ejimix_142 (J), EricMillard_144 (J), Gonephishing_143 (J), Halley_151 (J), Hannaconda_143 (J), HokkenD_144 (J), Hughesyang_149 (J), JuicyJay_145 (J), Kalah2_141 (J), KashFlow_149 (J), Klein_149 (J), LittleE_152 (J), Lucky2013_141 (J), Marleymoo_135 (J), MiaZeal_148 (J), Minerva_149 (J), Nekros_147 (J), Nibley_143 (J), NihilNomen_151 (J), Odette_155 (J), Omega_156 (J), Optimus_143 (J), Phoebus_150 (J), Porcelain_145 (J), Pound_141 (J), Redno2_144 (J), Schatzie_145 (J), Shaboozey_147 (J), Squint_141 (J), Superphikiman_146 (J), Thibault_133 (J), ThreeRngTarjay_145 (J), Wanda_149 (J), Yeet_143 (J), Zelink_144 (J),

Start 6:

- Found in 49 of 49 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 2.0% of time when present
- Phage (with cluster) where this start called: Hidrated_138 (J),

Summary by clusters:

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 2 was manually annotated 40 times for cluster J.

Gene Information:

Gene: Ariel_148 Start: 76053, Stop: 76664, Start Num: 2

Candidate Starts for Ariel_148:

(Start: 2 @76053 has 40 MA's), (3, 76083), (4, 76110), (6, 76119), (11, 76251), (14, 76290), (17, 76380), (19, 76491), (20, 76500), (26, 76590),

Gene: BAKA_152 Start: 80701, Stop: 81333, Start Num: 2

Candidate Starts for BAKA_152:

(Start: 2 @80701 has 40 MA's), (3, 80731), (4, 80758), (6, 80767), (9, 80908), (12, 80944), (17, 81073), (19, 81184), (21, 81205), (22, 81217), (23, 81223), (27, 81313),

Gene: Bagrid_153 Start: 81396, Stop: 82040, Start Num: 2

Candidate Starts for Bagrid_153:

(Start: 2 @81396 has 40 MA's), (3, 81426), (4, 81453), (5, 81459), (6, 81462), (16, 81714), (17, 81756), (19, 81867), (20, 81876), (26, 81966),

Gene: Beem_152 Start: 80814, Stop: 81461, Start Num: 2

Candidate Starts for Beem_152:

(Start: 2 @80814 has 40 MA's), (3, 80844), (4, 80871), (6, 80880), (15, 81111), (26, 81387),

Gene: Bobby_140 Start: 80853, Stop: 81458, Start Num: 2

Candidate Starts for Bobby_140:

(1, 80754), (Start: 2 @80853 has 40 MA's), (3, 80883), (4, 80910), (5, 80916), (6, 80919), (26, 81384),

Gene: Bombitas_137 Start: 77667, Stop: 78314, Start Num: 2

Candidate Starts for Bombitas_137:

(Start: 2 @77667 has 40 MA's), (3, 77697), (4, 77724), (6, 77733), (15, 77964), (26, 78240),

Gene: BronnyJames_144 Start: 76976, Stop: 77614, Start Num: 2

Candidate Starts for BronnyJames_144:

(Start: 2 @76976 has 40 MA's), (3, 77006), (4, 77033), (6, 77042), (9, 77183), (12, 77219), (19, 77465), (21, 77486), (22, 77498), (23, 77504), (27, 77594),

Gene: Constella_143 Start: 78912, Stop: 79523, Start Num: 2

Candidate Starts for Constella_143:

(Start: 2 @78912 has 40 MA's), (3, 78942), (4, 78969), (6, 78978), (11, 79110), (14, 79149), (17, 79239), (19, 79350), (20, 79359), (26, 79449),

Gene: Courthouse_144 Start: 75911, Stop: 76522, Start Num: 2

Candidate Starts for Courthouse_144:

(Start: 2 @75911 has 40 MA's), (3, 75941), (4, 75968), (6, 75977), (11, 76109), (14, 76148), (17, 76238), (19, 76349), (20, 76358), (26, 76448),

Gene: Dallas_150 Start: 79726, Stop: 80370, Start Num: 2

Candidate Starts for Dallas_150:

(Start: 2 @79726 has 40 MA's), (3, 79756), (4, 79783), (5, 79789), (6, 79792), (16, 80044), (17, 80086), (19, 80197), (20, 80206), (26, 80296),

Gene: DmpstrDiver_150 Start: 79645, Stop: 80289, Start Num: 2

Candidate Starts for DmpstrDiver_150:

(Start: 2 @79645 has 40 MA's), (3, 79675), (4, 79702), (5, 79708), (6, 79711), (16, 79963), (17, 80005), (19, 80116), (20, 80125), (26, 80215),

Gene: Dove_136 Start: 75830, Stop: 76477, Start Num: 2

Candidate Starts for Dove_136:

(1, 75731), (Start: 2 @75830 has 40 MA's), (3, 75860), (4, 75887), (5, 75893), (6, 75896), (15, 76127), (26, 76403),

Gene: Duke13_148 Start: 78986, Stop: 79618, Start Num: 2

Candidate Starts for Duke13_148:

(Start: 2 @78986 has 40 MA's), (3, 79016), (4, 79043), (6, 79052), (9, 79193), (12, 79229), (17, 79358), (19, 79469), (21, 79490), (22, 79502), (23, 79508), (27, 79598),

Gene: Ejimix_142 Start: 79794, Stop: 80438, Start Num: 2

Candidate Starts for Ejimix_142:

(Start: 2 @79794 has 40 MA's), (3, 79824), (4, 79851), (5, 79857), (6, 79860), (16, 80112), (17, 80154), (19, 80265), (20, 80274), (26, 80364),

Gene: EricMillard_144 Start: 80338, Stop: 80970, Start Num: 2

Candidate Starts for EricMillard_144:

(Start: 2 @80338 has 40 MA's), (3, 80368), (4, 80395), (6, 80404), (9, 80545), (12, 80581), (17, 80710), (19, 80821), (21, 80842), (22, 80854), (23, 80860), (27, 80950),

Gene: Gonephishing_143 Start: 77978, Stop: 78610, Start Num: 2

Candidate Starts for Gonephishing_143:

(Start: 2 @77978 has 40 MA's), (3, 78008), (4, 78035), (6, 78044), (8, 78116), (9, 78185), (12, 78221), (17, 78350), (19, 78461), (21, 78482), (22, 78494), (23, 78500), (27, 78590),

Gene: Halley_151 Start: 80110, Stop: 80754, Start Num: 2

Candidate Starts for Halley_151:

(Start: 2 @80110 has 40 MA's), (3, 80140), (4, 80167), (5, 80173), (6, 80176), (16, 80428), (17, 80470), (19, 80581), (20, 80590), (26, 80680),

Gene: Hannaconda_143 Start: 78905, Stop: 79543, Start Num: 2

Candidate Starts for Hannaconda_143:

(Start: 2 @78905 has 40 MA's), (3, 78935), (4, 78962), (6, 78971), (9, 79112), (12, 79148), (19, 79394), (21, 79415), (22, 79427), (23, 79433), (27, 79523),

Gene: Hidrated_138 Start: 79356, Stop: 79928, Start Num: 6

Candidate Starts for Hidrated_138:

(1, 79191), (Start: 2 @79290 has 40 MA's), (3, 79320), (4, 79347), (5, 79353), (6, 79356), (9, 79497), (10, 79527), (12, 79533), (19, 79779), (21, 79800), (22, 79812), (23, 79818), (24, 79827), (27, 79908),

Gene: HokkenD_144 Start: 81241, Stop: 81879, Start Num: 2

Candidate Starts for HokkenD_144:

(Start: 2 @81241 has 40 MA's), (3, 81271), (4, 81298), (6, 81307), (9, 81448), (12, 81484), (19, 81730), (21, 81751), (22, 81763), (23, 81769), (24, 81778), (27, 81859),

Gene: Hughesyang_149 Start: 80466, Stop: 81113, Start Num: 2

Candidate Starts for Hughesyang_149:

(1, 80367), (Start: 2 @80466 has 40 MA's), (3, 80496), (4, 80523), (5, 80529), (6, 80532), (15, 80763), (26, 81039),

Gene: JuicyJay_145 Start: 81392, Stop: 82039, Start Num: 2

Candidate Starts for JuicyJay_145:

(Start: 2 @81392 has 40 MA's), (3, 81422), (4, 81449), (6, 81458), (15, 81689), (26, 81965),

Gene: Kalah2_141 Start: 79587, Stop: 80243, Start Num: 2

Candidate Starts for Kalah2_141:

(1, 79488), (Start: 2 @79587 has 40 MA's), (3, 79617), (4, 79644), (5, 79650), (6, 79653), (15, 79884), (19, 80070), (20, 80079), (26, 80169),

Gene: KashFlow_149 Start: 78904, Stop: 79542, Start Num: 2

Candidate Starts for KashFlow_149:

(Start: 2 @78904 has 40 MA's), (3, 78934), (4, 78961), (6, 78970), (9, 79111), (12, 79147), (19, 79393), (21, 79414), (22, 79426), (23, 79432), (27, 79522),

Gene: Klein_149 Start: 79476, Stop: 80108, Start Num: 2

Candidate Starts for Klein_149:

(Start: 2 @79476 has 40 MA's), (3, 79506), (4, 79533), (6, 79542), (9, 79683), (12, 79719), (17, 79848), (19, 79959), (21, 79980), (22, 79992), (23, 79998), (27, 80088),

Gene: LittleE_152 Start: 80401, Stop: 80988, Start Num: 2

Candidate Starts for LittleE_152:

(Start: 2 @80401 has 40 MA's), (3, 80431), (4, 80458), (6, 80467), (9, 80608), (12, 80644), (19, 80839), (21, 80860), (22, 80872), (23, 80878), (24, 80887), (27, 80968),

Gene: Lucky2013_141 Start: 75313, Stop: 75900, Start Num: 2

Candidate Starts for Lucky2013_141:

(Start: 2 @75313 has 40 MA's), (3, 75343), (4, 75370), (6, 75379), (7, 75445), (9, 75520), (12, 75556), (13, 75565), (18, 75682), (19, 75754), (21, 75775), (22, 75787), (25, 75823), (27, 75880),

Gene: Marleymoo_135 Start: 76599, Stop: 77204, Start Num: 2

Candidate Starts for Marleymoo_135:

(1, 76500), (Start: 2 @76599 has 40 MA's), (3, 76629), (4, 76656), (5, 76662), (6, 76665), (26, 77130),

Gene: MiaZeal_148 Start: 76460, Stop: 77047, Start Num: 2

Candidate Starts for MiaZeal_148:

(Start: 2 @76460 has 40 MA's), (3, 76490), (4, 76517), (6, 76526), (7, 76592), (9, 76667), (12, 76703), (13, 76712), (18, 76829), (19, 76901), (21, 76922), (22, 76934), (25, 76970), (27, 77027),

Gene: Minerva_149 Start: 79448, Stop: 80062, Start Num: 2

Candidate Starts for Minerva_149:

(1, 79349), (Start: 2 @79448 has 40 MA's), (3, 79478), (4, 79505), (5, 79511), (6, 79514), (11, 79649), (14, 79688), (17, 79778), (19, 79889), (20, 79898), (26, 79988),

Gene: Nekros_147 Start: 79298, Stop: 79936, Start Num: 2

Candidate Starts for Nekros_147:

(Start: 2 @79298 has 40 MA's), (3, 79328), (4, 79355), (6, 79364), (9, 79505), (12, 79541), (19, 79787), (21, 79808), (22, 79820), (23, 79826), (27, 79916),

Gene: Nibley_143 Start: 76553, Stop: 77191, Start Num: 2

Candidate Starts for Nibley_143:

(Start: 2 @76553 has 40 MA's), (3, 76583), (4, 76610), (6, 76619), (9, 76760), (12, 76796), (19, 77042), (21, 77063), (22, 77075), (23, 77081), (27, 77171),

Gene: NihilNomen_151 Start: 79340, Stop: 79963, Start Num: 2

Candidate Starts for NihilNomen_151:

(Start: 2 @79340 has 40 MA's), (3, 79370), (4, 79397), (5, 79403), (6, 79406), (15, 79616), (26, 79889),

Gene: Odette_155 Start: 82069, Stop: 82656, Start Num: 2

Candidate Starts for Odette_155:

(1, 81970), (Start: 2 @82069 has 40 MA's), (3, 82099), (4, 82126), (6, 82135), (9, 82276), (12, 82312), (19, 82507), (21, 82528), (22, 82540), (23, 82546), (27, 82636),

Gene: Omega_156 Start: 81565, Stop: 82152, Start Num: 2

Candidate Starts for Omega_156:

(Start: 2 @81565 has 40 MA's), (3, 81595), (4, 81622), (6, 81631), (9, 81772), (12, 81808), (19, 82003), (21, 82024), (22, 82036), (23, 82042), (27, 82132),

Gene: Optimus_143 Start: 79074, Stop: 79661, Start Num: 2

Candidate Starts for Optimus_143:

(Start: 2 @79074 has 40 MA's), (3, 79104), (4, 79131), (6, 79140), (9, 79281), (12, 79317), (19, 79512), (21, 79533), (22, 79545), (23, 79551), (27, 79641),

Gene: Phoebus_150 Start: 81820, Stop: 82467, Start Num: 2

Candidate Starts for Phoebus_150:

(1, 81721), (Start: 2 @81820 has 40 MA's), (3, 81850), (4, 81877), (5, 81883), (6, 81886), (15, 82117), (26, 82393),

Gene: Porcelain_145 Start: 76259, Stop: 76846, Start Num: 2

Candidate Starts for Porcelain_145:

(Start: 2 @76259 has 40 MA's), (3, 76289), (4, 76316), (6, 76325), (7, 76391), (9, 76466), (12, 76502), (13, 76511), (18, 76628), (19, 76700), (21, 76721), (22, 76733), (25, 76769), (27, 76826),

Gene: Pound_141 Start: 79053, Stop: 79697, Start Num: 2

Candidate Starts for Pound_141:

(Start: 2 @79053 has 40 MA's), (3, 79083), (4, 79110), (5, 79116), (6, 79119), (16, 79371), (17, 79413), (19, 79524), (20, 79533), (26, 79623),

Gene: Redno2_144 Start: 77342, Stop: 77965, Start Num: 2

Candidate Starts for Redno2_144:

(Start: 2 @77342 has 40 MA's), (3, 77372), (4, 77399), (5, 77405), (6, 77408), (15, 77618), (26, 77891),

Gene: Schatzie_145 Start: 79902, Stop: 80546, Start Num: 2

Candidate Starts for Schatzie_145:

(Start: 2 @79902 has 40 MA's), (3, 79932), (4, 79959), (5, 79965), (6, 79968), (16, 80220), (17, 80262), (19, 80373), (20, 80382), (26, 80472),

Gene: Shaboozey_147 Start: 76997, Stop: 77635, Start Num: 2

Candidate Starts for Shaboozey_147:

(Start: 2 @76997 has 40 MA's), (3, 77027), (4, 77054), (6, 77063), (9, 77204), (12, 77240), (19, 77486), (21, 77507), (22, 77519), (23, 77525), (27, 77615),

Gene: Squint_141 Start: 75693, Stop: 76331, Start Num: 2

Candidate Starts for Squint_141:

(Start: 2 @75693 has 40 MA's), (3, 75723), (4, 75750), (6, 75759), (9, 75900), (12, 75936), (19, 76182), (21, 76203), (22, 76215), (23, 76221), (27, 76311),

Gene: Superphikiman_146 Start: 76193, Stop: 76804, Start Num: 2

Candidate Starts for Superphikiman_146:

(Start: 2 @76193 has 40 MA's), (3, 76223), (4, 76250), (6, 76259), (11, 76391), (14, 76430), (17, 76520), (19, 76631), (20, 76640), (26, 76730),

Gene: Thibault_133 Start: 76788, Stop: 77420, Start Num: 2

Candidate Starts for Thibault_133:

(Start: 2 @76788 has 40 MA's), (3, 76818), (4, 76845), (6, 76854), (15, 77064), (17, 77145), (26, 77346),

Gene: ThreeRngTarjay_145 Start: 80411, Stop: 81058, Start Num: 2

Candidate Starts for ThreeRngTarjay_145:

(1, 80312), (Start: 2 @80411 has 40 MA's), (3, 80441), (4, 80468), (5, 80474), (6, 80477), (15, 80708), (26, 80984),

Gene: Wanda_149 Start: 77928, Stop: 78533, Start Num: 2

Candidate Starts for Wanda_149:

(1, 77829), (Start: 2 @77928 has 40 MA's), (3, 77958), (4, 77985), (5, 77991), (6, 77994), (26, 78459),

Gene: Yeet_143 Start: 79298, Stop: 79909, Start Num: 2

Candidate Starts for Yeet_143:

(Start: 2 @79298 has 40 MA's), (3, 79328), (4, 79355), (6, 79364), (11, 79496), (14, 79535), (17, 79625), (19, 79736), (20, 79745), (26, 79835),

Gene: Zelink_144 Start: 80740, Stop: 81375, Start Num: 2

Candidate Starts for Zelink_144:

(1, 80641), (Start: 2 @80740 has 40 MA's), (3, 80770), (4, 80797), (5, 80803), (6, 80806), (16, 81058), (17, 81100), (26, 81301),