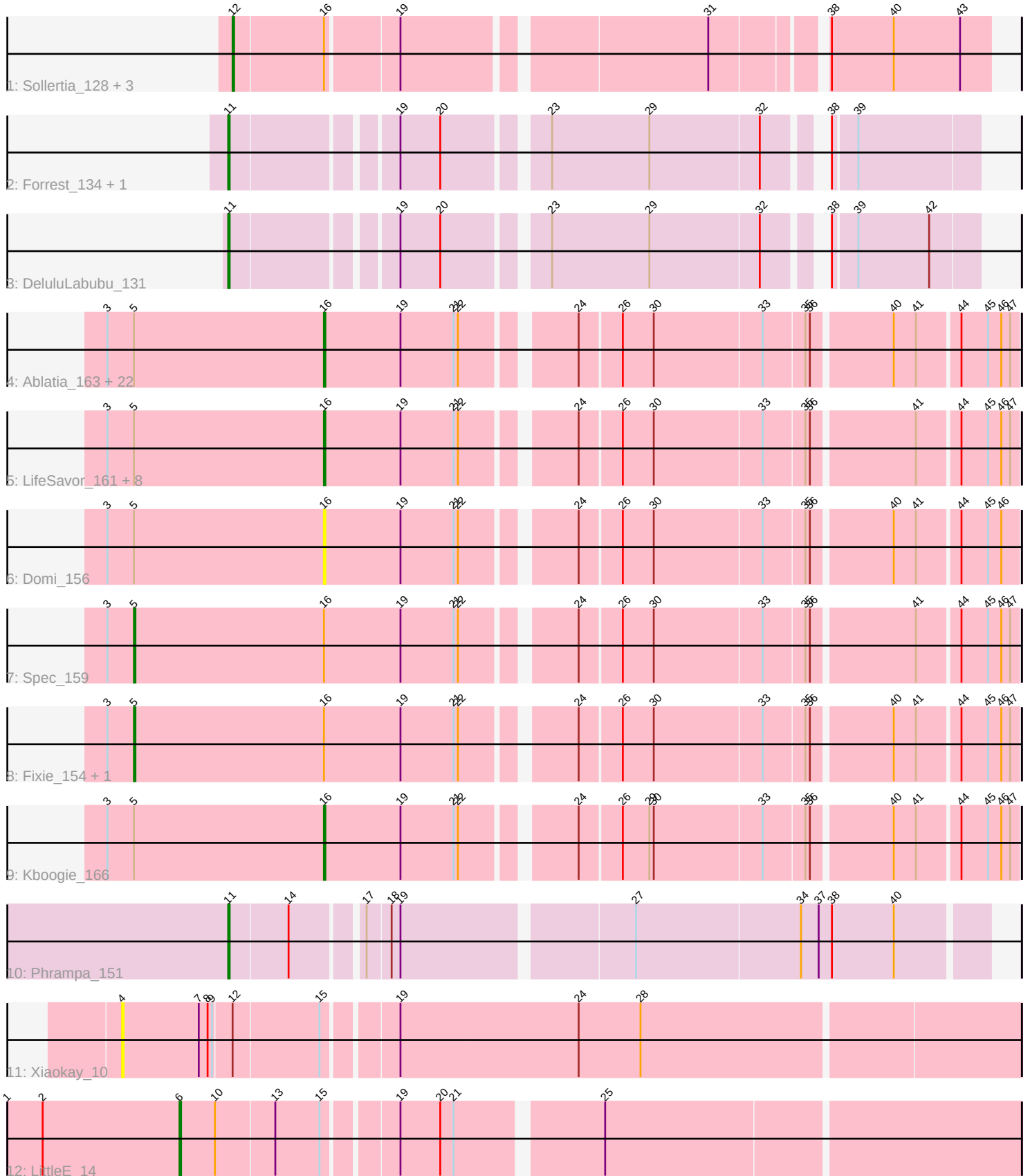


Pham 327189



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 327189 Report

This analysis was run 09/05/26 on database version 662.

Pham number 327189 has 47 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Sollertia_128, BoomerJR_129, Genie2_129, Stanimal_127
- Track 2 : Forrest_134, Jada_130
- Track 3 : DeluluLabubu_131
- Track 4 : Ablatia_163, Astraea_158, Basquiat_160, Halldule_156, Rahel_165, Maby2021_162, Sprinklers_160, FudgeTart_160, YoungMoneyMata_164, Iota_158, Wally_162, Chargie21_160, Labradorite_161, Grungle_149, InterFolia_168, Bowman_165, Lee7_165, MikeLiesIn_164, Primadonna_157, Napoleon13_160, Ronan_158, LolaVinca_162, OrediggerDelux_165
- Track 5 : LifeSavor_161, Ading_164, EmmaElysia_163, Jedediah_166, Derek_162, JPickles_160, Substance289_161, Drazdys_163, Essence_160
- Track 6 : Domi_156
- Track 7 : Spec_159
- Track 8 : Fixie_154, BobaPhatt_158
- Track 9 : Kboogie_166
- Track 10 : Phrampa_151
- Track 11 : Xiaokay_10
- Track 12 : LittleE_14

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

The start number called the most often in the published annotations is 16, it was called in 29 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ablatia_163, Ading_164, Astraea_158, Basquiat_160, Bowman_165, Chargie21_160, Derek_162, Domi_156, Drazdys_163, EmmaElysia_163, Essence_160, FudgeTart_160, Grungle_149, Halldule_156, InterFolia_168, Iota_158, JPickles_160, Jedediah_166, Kboogie_166, Labradorite_161, Lee7_165, LifeSavor_161, LolaVinca_162, Maby2021_162, MikeLiesIn_164, Napoleon13_160, OrediggerDelux_165, Primadonna_157, Rahel_165, Ronan_158, Sprinklers_160, Substance289_161, Wally_162, YoungMoneyMata_164,

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

- BobaPhatt_158, BoomerJR_129, Fixie_154, Genie2_129, Sollertia_128, Spec_159, Stanimal_127,

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

- DeluluLabubu_131, Forrest_134, Jada_130, LittleE_14, Phrampa_151, Xiaokay_10,

Summary by start number:

Start 4:

- Found in 1 of 47 (2.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Xiaokay_10 (J),

Start 5:

- Found in 37 of 47 (78.7%) of genes in pham
- Manual Annotations of this start: 3 of 41
- Called 8.1% of time when present
- Phage (with cluster) where this start called: BobaPhatt_158 (C1), Fixie_154 (C1), Spec_159 (C1),

Start 6:

- Found in 1 of 47 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LittleE_14 (J),

Start 11:

- Found in 4 of 47 (8.5%) of genes in pham
- Manual Annotations of this start: 4 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DeluluLabubu_131 (BK1), Forrest_134 (BK1), Jada_130 (BK1), Phrampa_151 (FC),

Start 12:

- Found in 5 of 47 (10.6%) of genes in pham
- Manual Annotations of this start: 4 of 41
- Called 80.0% of time when present
- Phage (with cluster) where this start called: BoomerJR_129 (BE2), Genie2_129 (BE2), Sollertia_128 (BE2), Stanimal_127 (BE2),

Start 16:

- Found in 41 of 47 (87.2%) of genes in pham
- Manual Annotations of this start: 29 of 41
- Called 82.9% of time when present
- Phage (with cluster) where this start called: Ablatia_163 (C1), Ading_164 (C1), Astraea_158 (C1), Basquiat_160 (C1), Bowman_165 (C1), Chargie21_160 (C1), Derek_162 (C1), Domi_156 (C1), Drazdys_163 (C1), EmmaElysia_163 (C1), Essence_160 (C1), FudgeTart_160 (C1), Grungle_149 (C1), Halldule_156 (C1), InterFolia_168 (C1), Iota_158 (C1), JPickles_160 (C1), Jedediah_166 (C1), Kboogie_166 (C1), Labradorite_161 (C1), Lee7_165 (C1), LifeSavor_161 (C1), LolaVinca_162 (C1), Maby2021_162 (C1), MikeLiesIn_164 (C1), Napoleon13_160 (C1), OrediggerDelux_165 (C1), Primadonna_157 (C1), Rahel_165 (C1), Ronan_158

(C1), Sprinklers_160 (C1), Substance289_161 (C1), Wally_162 (C1), YoungMoneyMata_164 (C1),

Summary by clusters:

There are 5 clusters represented in this pham: FC, BE2, C1, J, BK1,

Info for manual annotations of cluster BE2:

- Start number 12 was manually annotated 4 times for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 11 was manually annotated 3 times for cluster BK1.

Info for manual annotations of cluster C1:

- Start number 5 was manually annotated 3 times for cluster C1.
- Start number 16 was manually annotated 29 times for cluster C1.

Info for manual annotations of cluster FC:

- Start number 11 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster J:

- Start number 6 was manually annotated 1 time for cluster J.

Gene Information:

Gene: Ablatia_163 Start: 93975, Stop: 94412, Start Num: 16

Candidate Starts for Ablatia_163:

(3, 93828), (Start: 5 @93846 has 3 MA's), (Start: 16 @93975 has 29 MA's), (19, 94026), (21, 94062), (22, 94065), (24, 94131), (26, 94158), (30, 94179), (33, 94251), (35, 94278), (36, 94281), (40, 94332), (41, 94347), (44, 94374), (45, 94392), (46, 94401), (47, 94407),

Gene: Ading_164 Start: 93810, Stop: 94247, Start Num: 16

Candidate Starts for Ading_164:

(3, 93663), (Start: 5 @93681 has 3 MA's), (Start: 16 @93810 has 29 MA's), (19, 93861), (21, 93897), (22, 93900), (24, 93966), (26, 93993), (30, 94014), (33, 94086), (35, 94113), (36, 94116), (41, 94182), (44, 94209), (45, 94227), (46, 94236), (47, 94242),

Gene: Astraea_158 Start: 92316, Stop: 92753, Start Num: 16

Candidate Starts for Astraea_158:

(3, 92169), (Start: 5 @92187 has 3 MA's), (Start: 16 @92316 has 29 MA's), (19, 92367), (21, 92403), (22, 92406), (24, 92472), (26, 92499), (30, 92520), (33, 92592), (35, 92619), (36, 92622), (40, 92673), (41, 92688), (44, 92715), (45, 92733), (46, 92742), (47, 92748),

Gene: Basquiat_160 Start: 92530, Stop: 92967, Start Num: 16

Candidate Starts for Basquiat_160:

(3, 92383), (Start: 5 @92401 has 3 MA's), (Start: 16 @92530 has 29 MA's), (19, 92581), (21, 92617), (22, 92620), (24, 92686), (26, 92713), (30, 92734), (33, 92806), (35, 92833), (36, 92836), (40, 92887), (41, 92902), (44, 92929), (45, 92947), (46, 92956), (47, 92962),

Gene: BobaPhatt_158 Start: 91948, Stop: 92514, Start Num: 5

Candidate Starts for BobaPhatt_158:

(3, 91930), (Start: 5 @91948 has 3 MA's), (Start: 16 @92077 has 29 MA's), (19, 92128), (21, 92164), (22, 92167), (24, 92233), (26, 92260), (30, 92281), (33, 92353), (35, 92380), (36, 92383), (40, 92434), (41, 92449), (44, 92476), (45, 92494), (46, 92503), (47, 92509),

Gene: BoomerJR_129 Start: 79918, Stop: 80385, Start Num: 12

Candidate Starts for BoomerJR_129:

(Start: 12 @79918 has 4 MA's), (Start: 16 @79978 has 29 MA's), (19, 80023), (31, 80212), (38, 80278), (40, 80320), (43, 80365),

Gene: Bowman_165 Start: 93924, Stop: 94361, Start Num: 16

Candidate Starts for Bowman_165:

(3, 93777), (Start: 5 @93795 has 3 MA's), (Start: 16 @93924 has 29 MA's), (19, 93975), (21, 94011), (22, 94014), (24, 94080), (26, 94107), (30, 94128), (33, 94200), (35, 94227), (36, 94230), (40, 94281), (41, 94296), (44, 94323), (45, 94341), (46, 94350), (47, 94356),

Gene: Chargie21_160 Start: 92530, Stop: 92967, Start Num: 16

Candidate Starts for Chargie21_160:

(3, 92383), (Start: 5 @92401 has 3 MA's), (Start: 16 @92530 has 29 MA's), (19, 92581), (21, 92617), (22, 92620), (24, 92686), (26, 92713), (30, 92734), (33, 92806), (35, 92833), (36, 92836), (40, 92887), (41, 92902), (44, 92929), (45, 92947), (46, 92956), (47, 92962),

Gene: DeluluLabubu_131 Start: 76975, Stop: 77424, Start Num: 11

Candidate Starts for DeluluLabubu_131:

(Start: 11 @76975 has 4 MA's), (19, 77074), (20, 77101), (23, 77161), (29, 77227), (32, 77299), (38, 77329), (39, 77344), (42, 77392),

Gene: Derek_162 Start: 93624, Stop: 94061, Start Num: 16

Candidate Starts for Derek_162:

(3, 93477), (Start: 5 @93495 has 3 MA's), (Start: 16 @93624 has 29 MA's), (19, 93675), (21, 93711), (22, 93714), (24, 93780), (26, 93807), (30, 93828), (33, 93900), (35, 93927), (36, 93930), (41, 93996), (44, 94023), (45, 94041), (46, 94050), (47, 94056),

Gene: Domi_156 Start: 92867, Stop: 93304, Start Num: 16

Candidate Starts for Domi_156:

(3, 92720), (Start: 5 @92738 has 3 MA's), (Start: 16 @92867 has 29 MA's), (19, 92918), (21, 92954), (22, 92957), (24, 93023), (26, 93050), (30, 93071), (33, 93143), (35, 93170), (36, 93173), (40, 93224), (41, 93239), (44, 93266), (45, 93284), (46, 93293),

Gene: Drazdys_163 Start: 93294, Stop: 93731, Start Num: 16

Candidate Starts for Drazdys_163:

(3, 93147), (Start: 5 @93165 has 3 MA's), (Start: 16 @93294 has 29 MA's), (19, 93345), (21, 93381), (22, 93384), (24, 93450), (26, 93477), (30, 93498), (33, 93570), (35, 93597), (36, 93600), (41, 93666), (44, 93693), (45, 93711), (46, 93720), (47, 93726),

Gene: EmmaElysia_163 Start: 93201, Stop: 93638, Start Num: 16

Candidate Starts for EmmaElysia_163:

(3, 93054), (Start: 5 @93072 has 3 MA's), (Start: 16 @93201 has 29 MA's), (19, 93252), (21, 93288), (22, 93291), (24, 93357), (26, 93384), (30, 93405), (33, 93477), (35, 93504), (36, 93507), (41, 93573), (44, 93600), (45, 93618), (46, 93627), (47, 93633),

Gene: Essence_160 Start: 92853, Stop: 93290, Start Num: 16

Candidate Starts for Essence_160:

(3, 92706), (Start: 5 @92724 has 3 MA's), (Start: 16 @92853 has 29 MA's), (19, 92904), (21, 92940), (22, 92943), (24, 93009), (26, 93036), (30, 93057), (33, 93129), (35, 93156), (36, 93159), (41, 93225), (44, 93252), (45, 93270), (46, 93279), (47, 93285),

Gene: Fixie_154 Start: 92772, Stop: 93338, Start Num: 5

Candidate Starts for Fixie_154:

(3, 92754), (Start: 5 @92772 has 3 MA's), (Start: 16 @92901 has 29 MA's), (19, 92952), (21, 92988), (22, 92991), (24, 93057), (26, 93084), (30, 93105), (33, 93177), (35, 93204), (36, 93207), (40, 93258), (41, 93273), (44, 93300), (45, 93318), (46, 93327), (47, 93333),

Gene: Forrest_134 Start: 78743, Stop: 79192, Start Num: 11

Candidate Starts for Forrest_134:

(Start: 11 @78743 has 4 MA's), (19, 78842), (20, 78869), (23, 78929), (29, 78995), (32, 79067), (38, 79097), (39, 79112),

Gene: FudgeTart_160 Start: 93059, Stop: 93496, Start Num: 16

Candidate Starts for FudgeTart_160:

(3, 92912), (Start: 5 @92930 has 3 MA's), (Start: 16 @93059 has 29 MA's), (19, 93110), (21, 93146), (22, 93149), (24, 93215), (26, 93242), (30, 93263), (33, 93335), (35, 93362), (36, 93365), (40, 93416), (41, 93431), (44, 93458), (45, 93476), (46, 93485), (47, 93491),

Gene: Genie2_129 Start: 80032, Stop: 80499, Start Num: 12

Candidate Starts for Genie2_129:

(Start: 12 @80032 has 4 MA's), (Start: 16 @80092 has 29 MA's), (19, 80137), (31, 80326), (38, 80392), (40, 80434), (43, 80479),

Gene: Grungle_149 Start: 90879, Stop: 91316, Start Num: 16

Candidate Starts for Grungle_149:

(3, 90732), (Start: 5 @90750 has 3 MA's), (Start: 16 @90879 has 29 MA's), (19, 90930), (21, 90966), (22, 90969), (24, 91035), (26, 91062), (30, 91083), (33, 91155), (35, 91182), (36, 91185), (40, 91236), (41, 91251), (44, 91278), (45, 91296), (46, 91305), (47, 91311),

Gene: Halldule_156 Start: 91254, Stop: 91691, Start Num: 16

Candidate Starts for Halldule_156:

(3, 91107), (Start: 5 @91125 has 3 MA's), (Start: 16 @91254 has 29 MA's), (19, 91305), (21, 91341), (22, 91344), (24, 91410), (26, 91437), (30, 91458), (33, 91530), (35, 91557), (36, 91560), (40, 91611), (41, 91626), (44, 91653), (45, 91671), (46, 91680), (47, 91686),

Gene: InterFolia_168 Start: 95242, Stop: 95679, Start Num: 16

Candidate Starts for InterFolia_168:

(3, 95095), (Start: 5 @95113 has 3 MA's), (Start: 16 @95242 has 29 MA's), (19, 95293), (21, 95329), (22, 95332), (24, 95398), (26, 95425), (30, 95446), (33, 95518), (35, 95545), (36, 95548), (40, 95599), (41, 95614), (44, 95641), (45, 95659), (46, 95668), (47, 95674),

Gene: Iota_158 Start: 92909, Stop: 93346, Start Num: 16

Candidate Starts for Iota_158:

(3, 92762), (Start: 5 @92780 has 3 MA's), (Start: 16 @92909 has 29 MA's), (19, 92960), (21, 92996), (22, 92999), (24, 93065), (26, 93092), (30, 93113), (33, 93185), (35, 93212), (36, 93215), (40, 93266), (41, 93281), (44, 93308), (45, 93326), (46, 93335), (47, 93341),

Gene: JPickles_160 Start: 91704, Stop: 92141, Start Num: 16

Candidate Starts for JPickles_160:

(3, 91557), (Start: 5 @91575 has 3 MA's), (Start: 16 @91704 has 29 MA's), (19, 91755), (21, 91791), (22, 91794), (24, 91860), (26, 91887), (30, 91908), (33, 91980), (35, 92007), (36, 92010), (41, 92076), (44, 92103), (45, 92121), (46, 92130), (47, 92136),

Gene: Jada_130 Start: 77673, Stop: 78122, Start Num: 11

Candidate Starts for Jada_130:

(Start: 11 @77673 has 4 MA's), (19, 77772), (20, 77799), (23, 77859), (29, 77925), (32, 77997), (38, 78027), (39, 78042),

Gene: Jedediah_166 Start: 93823, Stop: 94260, Start Num: 16

Candidate Starts for Jedediah_166:

(3, 93676), (Start: 5 @93694 has 3 MA's), (Start: 16 @93823 has 29 MA's), (19, 93874), (21, 93910), (22, 93913), (24, 93979), (26, 94006), (30, 94027), (33, 94099), (35, 94126), (36, 94129), (41, 94195), (44, 94222), (45, 94240), (46, 94249), (47, 94255),

Gene: Kboogie_166 Start: 92912, Stop: 93349, Start Num: 16

Candidate Starts for Kboogie_166:

(3, 92765), (Start: 5 @92783 has 3 MA's), (Start: 16 @92912 has 29 MA's), (19, 92963), (21, 92999), (22, 93002), (24, 93068), (26, 93095), (29, 93113), (30, 93116), (33, 93188), (35, 93215), (36, 93218), (40, 93269), (41, 93284), (44, 93311), (45, 93329), (46, 93338), (47, 93344),

Gene: Labradorite_161 Start: 91914, Stop: 92351, Start Num: 16

Candidate Starts for Labradorite_161:

(3, 91767), (Start: 5 @91785 has 3 MA's), (Start: 16 @91914 has 29 MA's), (19, 91965), (21, 92001), (22, 92004), (24, 92070), (26, 92097), (30, 92118), (33, 92190), (35, 92217), (36, 92220), (40, 92271), (41, 92286), (44, 92313), (45, 92331), (46, 92340), (47, 92346),

Gene: Lee7_165 Start: 94552, Stop: 94989, Start Num: 16

Candidate Starts for Lee7_165:

(3, 94405), (Start: 5 @94423 has 3 MA's), (Start: 16 @94552 has 29 MA's), (19, 94603), (21, 94639), (22, 94642), (24, 94708), (26, 94735), (30, 94756), (33, 94828), (35, 94855), (36, 94858), (40, 94909), (41, 94924), (44, 94951), (45, 94969), (46, 94978), (47, 94984),

Gene: LifeSavor_161 Start: 93109, Stop: 93546, Start Num: 16

Candidate Starts for LifeSavor_161:

(3, 92962), (Start: 5 @92980 has 3 MA's), (Start: 16 @93109 has 29 MA's), (19, 93160), (21, 93196), (22, 93199), (24, 93265), (26, 93292), (30, 93313), (33, 93385), (35, 93412), (36, 93415), (41, 93481), (44, 93508), (45, 93526), (46, 93535), (47, 93541),

Gene: LittleE_14 Start: 9597, Stop: 9064, Start Num: 6

Candidate Starts for LittleE_14:

(1, 9714), (2, 9690), (Start: 6 @9597 has 1 MA's), (10, 9573), (13, 9534), (15, 9504), (19, 9462), (20, 9435), (21, 9426), (25, 9336),

Gene: LolaVince_162 Start: 94505, Stop: 94942, Start Num: 16

Candidate Starts for LolaVince_162:

(3, 94358), (Start: 5 @94376 has 3 MA's), (Start: 16 @94505 has 29 MA's), (19, 94556), (21, 94592), (22, 94595), (24, 94661), (26, 94688), (30, 94709), (33, 94781), (35, 94808), (36, 94811), (40, 94862), (41, 94877), (44, 94904), (45, 94922), (46, 94931), (47, 94937),

Gene: Maby2021_162 Start: 94012, Stop: 94449, Start Num: 16

Candidate Starts for Maby2021_162:

(3, 93865), (Start: 5 @93883 has 3 MA's), (Start: 16 @94012 has 29 MA's), (19, 94063), (21, 94099), (22, 94102), (24, 94168), (26, 94195), (30, 94216), (33, 94288), (35, 94315), (36, 94318), (40, 94369), (41, 94384), (44, 94411), (45, 94429), (46, 94438), (47, 94444),

Gene: MikeLiesIn_164 Start: 94208, Stop: 94645, Start Num: 16

Candidate Starts for MikeLiesIn_164:

(3, 94061), (Start: 5 @94079 has 3 MA's), (Start: 16 @94208 has 29 MA's), (19, 94259), (21, 94295), (22, 94298), (24, 94364), (26, 94391), (30, 94412), (33, 94484), (35, 94511), (36, 94514), (40, 94565), (41, 94580), (44, 94607), (45, 94625), (46, 94634), (47, 94640),

Gene: Napoleon13_160 Start: 92167, Stop: 92604, Start Num: 16

Candidate Starts for Napoleon13_160:

(3, 92020), (Start: 5 @92038 has 3 MA's), (Start: 16 @92167 has 29 MA's), (19, 92218), (21, 92254), (22, 92257), (24, 92323), (26, 92350), (30, 92371), (33, 92443), (35, 92470), (36, 92473), (40, 92524), (41, 92539), (44, 92566), (45, 92584), (46, 92593), (47, 92599),

Gene: OrediggerDelux_165 Start: 94549, Stop: 94986, Start Num: 16

Candidate Starts for OrediggerDelux_165:

(3, 94402), (Start: 5 @94420 has 3 MA's), (Start: 16 @94549 has 29 MA's), (19, 94600), (21, 94636), (22, 94639), (24, 94705), (26, 94732), (30, 94753), (33, 94825), (35, 94852), (36, 94855), (40, 94906), (41, 94921), (44, 94948), (45, 94966), (46, 94975), (47, 94981),

Gene: Phrampa_151 Start: 107783, Stop: 108262, Start Num: 11

Candidate Starts for Phrampa_151:

(Start: 11 @107783 has 4 MA's), (14, 107822), (17, 107864), (18, 107879), (19, 107885), (27, 108032), (34, 108140), (37, 108152), (38, 108161), (40, 108203),

Gene: Primadonna_157 Start: 92577, Stop: 93014, Start Num: 16

Candidate Starts for Primadonna_157:

(3, 92430), (Start: 5 @92448 has 3 MA's), (Start: 16 @92577 has 29 MA's), (19, 92628), (21, 92664), (22, 92667), (24, 92733), (26, 92760), (30, 92781), (33, 92853), (35, 92880), (36, 92883), (40, 92934), (41, 92949), (44, 92976), (45, 92994), (46, 93003), (47, 93009),

Gene: Rahel_165 Start: 93494, Stop: 93931, Start Num: 16

Candidate Starts for Rahel_165:

(3, 93347), (Start: 5 @93365 has 3 MA's), (Start: 16 @93494 has 29 MA's), (19, 93545), (21, 93581), (22, 93584), (24, 93650), (26, 93677), (30, 93698), (33, 93770), (35, 93797), (36, 93800), (40, 93851), (41, 93866), (44, 93893), (45, 93911), (46, 93920), (47, 93926),

Gene: Ronan_158 Start: 91264, Stop: 91701, Start Num: 16

Candidate Starts for Ronan_158:

(3, 91117), (Start: 5 @91135 has 3 MA's), (Start: 16 @91264 has 29 MA's), (19, 91315), (21, 91351), (22, 91354), (24, 91420), (26, 91447), (30, 91468), (33, 91540), (35, 91567), (36, 91570), (40, 91621), (41, 91636), (44, 91663), (45, 91681), (46, 91690), (47, 91696),

Gene: Sollertia_128 Start: 80032, Stop: 80499, Start Num: 12

Candidate Starts for Sollertia_128:

(Start: 12 @80032 has 4 MA's), (Start: 16 @80092 has 29 MA's), (19, 80137), (31, 80326), (38, 80392), (40, 80434), (43, 80479),

Gene: Spec_159 Start: 92926, Stop: 93492, Start Num: 5

Candidate Starts for Spec_159:

(3, 92908), (Start: 5 @92926 has 3 MA's), (Start: 16 @93055 has 29 MA's), (19, 93106), (21, 93142), (22, 93145), (24, 93211), (26, 93238), (30, 93259), (33, 93331), (35, 93358), (36, 93361), (41, 93427), (44, 93454), (45, 93472), (46, 93481), (47, 93487),

Gene: Sprinklers_160 Start: 92508, Stop: 92945, Start Num: 16

Candidate Starts for Sprinklers_160:

(3, 92361), (Start: 5 @92379 has 3 MA's), (Start: 16 @92508 has 29 MA's), (19, 92559), (21, 92595), (22, 92598), (24, 92664), (26, 92691), (30, 92712), (33, 92784), (35, 92811), (36, 92814), (40, 92865), (41, 92880), (44, 92907), (45, 92925), (46, 92934), (47, 92940),

Gene: Stanimal_127 Start: 79921, Stop: 80388, Start Num: 12

Candidate Starts for Stanimal_127:

(Start: 12 @79921 has 4 MA's), (Start: 16 @79981 has 29 MA's), (19, 80026), (31, 80215), (38, 80281), (40, 80323), (43, 80368),

Gene: Substance289_161 Start: 92808, Stop: 93245, Start Num: 16

Candidate Starts for Substance289_161:

(3, 92661), (Start: 5 @92679 has 3 MA's), (Start: 16 @92808 has 29 MA's), (19, 92859), (21, 92895), (22, 92898), (24, 92964), (26, 92991), (30, 93012), (33, 93084), (35, 93111), (36, 93114), (41, 93180), (44, 93207), (45, 93225), (46, 93234), (47, 93240),

Gene: Wally_162 Start: 92420, Stop: 92857, Start Num: 16

Candidate Starts for Wally_162:

(3, 92273), (Start: 5 @92291 has 3 MA's), (Start: 16 @92420 has 29 MA's), (19, 92471), (21, 92507), (22, 92510), (24, 92576), (26, 92603), (30, 92624), (33, 92696), (35, 92723), (36, 92726), (40, 92777), (41, 92792), (44, 92819), (45, 92837), (46, 92846), (47, 92852),

Gene: Xiaokay_10 Start: 8310, Stop: 7729, Start Num: 4

Candidate Starts for Xiaokay_10:

(4, 8310), (7, 8259), (8, 8253), (9, 8250), (Start: 12 @8238 has 4 MA's), (15, 8181), (19, 8139), (24, 8019), (28, 7977),

Gene: YoungMoneyMata_164 Start: 93565, Stop: 94002, Start Num: 16

Candidate Starts for YoungMoneyMata_164:

(3, 93418), (Start: 5 @93436 has 3 MA's), (Start: 16 @93565 has 29 MA's), (19, 93616), (21, 93652), (22, 93655), (24, 93721), (26, 93748), (30, 93769), (33, 93841), (35, 93868), (36, 93871), (40, 93922), (41, 93937), (44, 93964), (45, 93982), (46, 93991), (47, 93997),