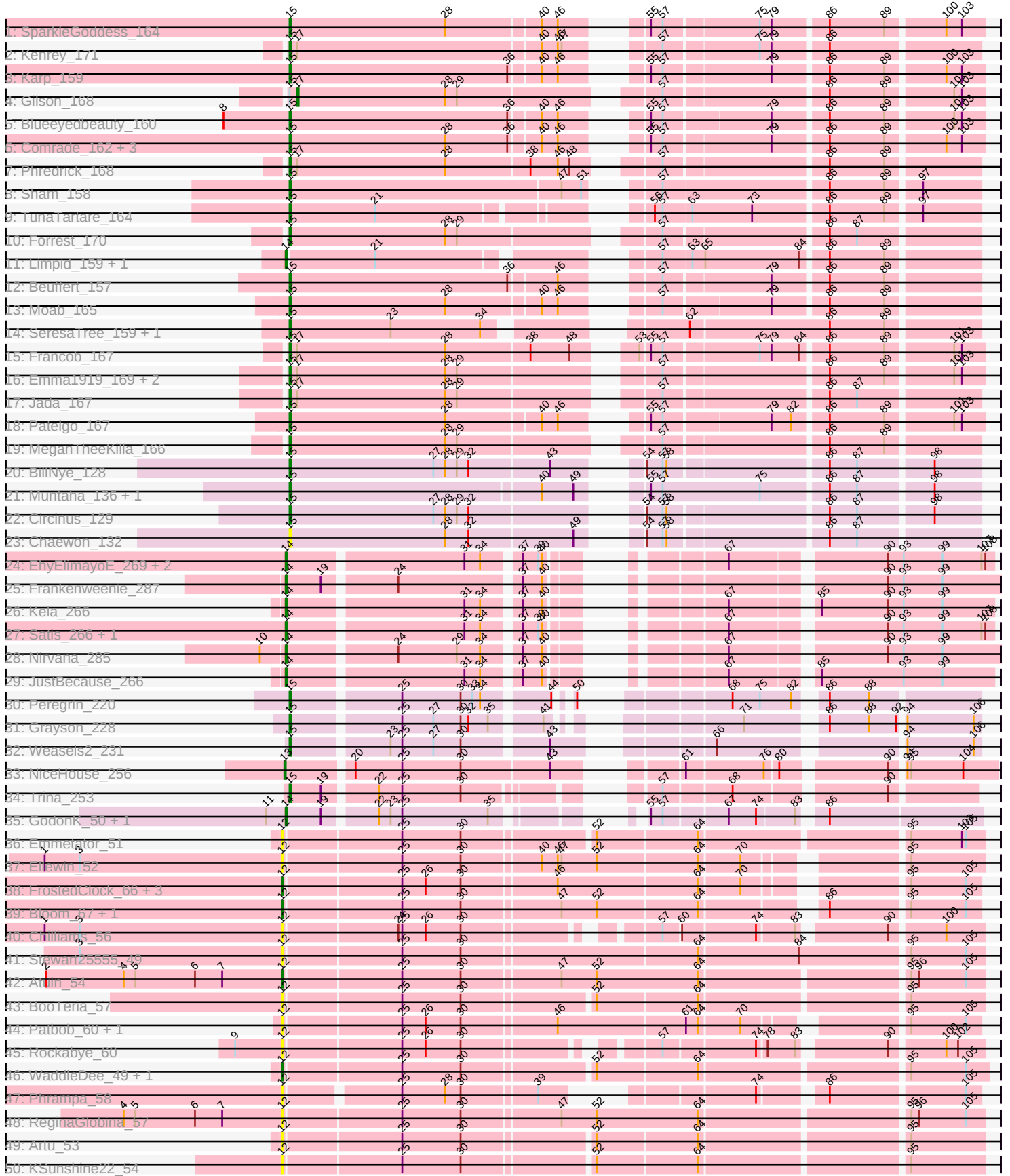
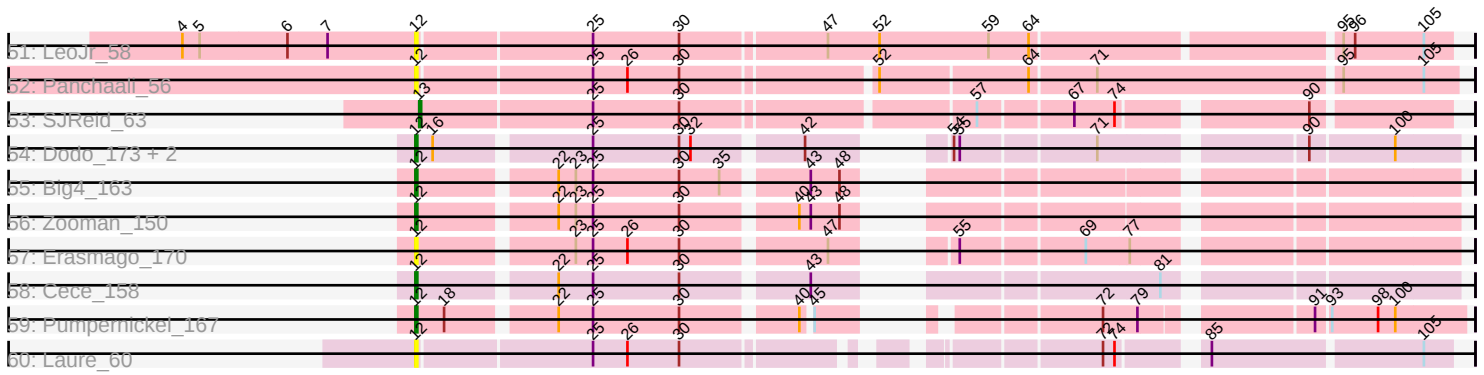


Pham 280358



Pham 280358



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 280358 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280358 has 80 members, 24 are drafts.

Phages represented in each track:

- Track 1 : SparkleGoddess_164
- Track 2 : Kenrey_171
- Track 3 : Karp_159
- Track 4 : Gilson_168
- Track 5 : Blueeyedbeauty_160
- Track 6 : Comrade_162, Belfort_165, Westy_167, Stigma_163
- Track 7 : Phredrick_168
- Track 8 : Sham_158
- Track 9 : TunaTartare_164
- Track 10 : Forrest_170
- Track 11 : Limpid_159, Annadreamy_152
- Track 12 : Beuffert_157
- Track 13 : Moab_165
- Track 14 : SeresaTree_159, Faust_157
- Track 15 : Francob_167
- Track 16 : Emma1919_169, Maupe_169, DeluluLabubu_173
- Track 17 : Jada_167
- Track 18 : Patelgo_167
- Track 19 : MeganTheeKilla_166
- Track 20 : BillNye_128
- Track 21 : Muntaha_136, Wakanda_135
- Track 22 : Circinus_129
- Track 23 : Chaewon_132
- Track 24 : EhyElimayoE_269, Kradal_266, Quantum_264
- Track 25 : Frankenweenie_287
- Track 26 : Kela_266
- Track 27 : Satis_266, Sarkar_277
- Track 28 : Nirvana_285
- Track 29 : JustBecause_266
- Track 30 : Peregrin_220
- Track 31 : Grayson_228
- Track 32 : Weasels2_231
- Track 33 : NiceHouse_256
- Track 34 : Trina_253
- Track 35 : GodonK_50, Phendrix_50
- Track 36 : Emmetator_51
- Track 37 : Ellewin_52

- Track 38 : FrostedClock_66, Mimi_63, Racecar_64, Talia1610_63
- Track 39 : Bloom_67, GoldenEssence_47
- Track 40 : Chilliams_56
- Track 41 : Stewart25555_49
- Track 42 : Atuin_54
- Track 43 : BooTeria_57
- Track 44 : Patbob_60, FloraSnap32_60
- Track 45 : Rockabye_60
- Track 46 : WaddleDee_49, DunneganBoMo_50
- Track 47 : Phrampa_58
- Track 48 : ReginaGlobina_57
- Track 49 : Artu_53
- Track 50 : KSunshine22_54
- Track 51 : LeoJr_58
- Track 52 : Panchaali_56
- Track 53 : SJReid_63
- Track 54 : Dodo_173, A3Wally_171, PauloDiaboli_171
- Track 55 : Big4_163
- Track 56 : Zooman_150
- Track 57 : Erasmago_170
- Track 58 : Cece_158
- Track 59 : Pumpernickel_167
- Track 60 : Laure_60

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

The start number called the most often in the published annotations is 15, it was called in 28 of the 56 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort_165, Beuffert_157, BillNye_128, Blueeyedbeauty_160, Chaewon_132, Circinus_129, Comrade_162, DeluluLabubu_173, Emma1919_169, Faust_157, Forrest_170, Francob_167, Grayson_228, Jada_167, Karp_159, Kenrey_171, Maupel_169, MeganTheeKilla_166, Moab_165, Muntaha_136, Patelgo_167, Peregrin_220, Phredrick_168, SeresaTree_159, Sham_158, SparkleGoddess_164, Stigma_163, Trina_253, TunaTartare_164, Wakanda_135, Weasels2_231, Westy_167,

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

- Gilson_168,

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

- A3Wally_171, Annadreamy_152, Artu_53, Atuin_54, Big4_163, Bloom_67, BooTeria_57, Cece_158, Chilliams_56, Dodo_173, DunneganBoMo_50, EhyElimayoE_269, Ellewin_52, Emmetator_51, Erasmago_170, FloraSnap32_60, Frankenweenie_287, FrostedClock_66, GodonK_50, GoldenEssence_47, JustBecause_266, KSunshine22_54, Kela_266, Kradal_266, Laure_60, LeoJr_58, Limpid_159, Mimi_63, NiceHouse_256, Nirvana_285, Panchaali_56, Patbob_60, PauloDiaboli_171, Phendrix_50, Phrampa_58, Pumpernickel_167, Quantum_264, Racecar_64, ReginaGlobina_57, Rockabye_60, SJReid_63, Sarkar_277, Satis_266,

Stewart25555_49, Talia1610_63, WaddleDee_49, Zooman_150,

Summary by start number:

Start 12:

- Found in 32 of 80 (40.0%) of genes in pham
- Manual Annotations of this start: 13 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally_171 (GD1), Artu_53 (FC), Atuin_54 (FC), Big4_163 (GD2), Bloom_67 (FC), BooTeria_57 (FC), Cece_158 (GD3), Chilliamps_56 (FC), Dodo_173 (GD1), DunneganBoMo_50 (FC), Ellewin_52 (FC), Emmetator_51 (FC), Erasmago_170 (GD2), FloraSnap32_60 (FC), FrostedClock_66 (FC), GoldenEssence_47 (FC), KSunshine22_54 (FC), Laure_60 (UNK), LeoJr_58 (FC), Mimi_63 (FC), Panchaali_56 (FC), Patbob_60 (FC), PauloDiaboli_171 (GD1), Phrampa_58 (FC), Pumpernickel_167 (GD4), Racecar_64 (FC), ReginaGlobina_57 (FC), Rockabye_60 (FC), Stewart25555_49 (FC), Talia1610_63 (FC), WaddleDee_49 (FC), Zooman_150 (GD2),

Start 13:

- Found in 2 of 80 (2.5%) of genes in pham
- Manual Annotations of this start: 2 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NiceHouse_256 (CE), SJReid_63 (FC),

Start 14:

- Found in 13 of 80 (16.2%) of genes in pham
- Manual Annotations of this start: 12 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annadreamy_152 (BK1), EhyElimayoE_269 (BM), Frankenweenie_287 (BM), GodonK_50 (DK), JustBecause_266 (BM), Kela_266 (BM), Kradal_266 (BM), Limpid_159 (BK1), Nirvana_285 (BM), Phendrix_50 (DK), Quantum_264 (BM), Sarkar_277 (BM), Satis_266 (BM),

Start 15:

- Found in 33 of 80 (41.2%) of genes in pham
- Manual Annotations of this start: 28 of 56
- Called 97.0% of time when present
- Phage (with cluster) where this start called: Belfort_165 (BK1), Beuffert_157 (BK1), BillNye_128 (BK2), Blueeyedbeauty_160 (BK1), Chaewon_132 (BK2), Circinus_129 (BK2), Comrade_162 (BK1), DeluluLabubu_173 (BK1), Emma1919_169 (BK1), Faust_157 (BK1), Forrest_170 (BK1), Francob_167 (BK1), Grayson_228 (CB), Jada_167 (BK1), Karp_159 (BK1), Kenrey_171 (BK1), Maupel_169 (BK1), MeganTheeKilla_166 (BK1), Moab_165 (BK1), Muntaha_136 (BK2), Patelgo_167 (BK1), Peregrin_220 (CB), Phredrick_168 (BK1), SeresaTree_159 (BK1), Sham_158 (BK1), SparkleGoddess_164 (BK1), Stigma_163 (BK1), Trina_253 (CE), TunaTartare_164 (BK1), Wakanda_135 (BK2), Weasels2_231 (CB), Westy_167 (BK1),

Start 17:

- Found in 8 of 80 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 56
- Called 12.5% of time when present

- Phage (with cluster) where this start called: Gilson_168 (BK1),

Summary by clusters:

There are 12 clusters represented in this pham: GD1, GD2, GD3, GD4, DK, CB, CE, FC, BK1, BK2, BM, UNK,

Info for manual annotations of cluster BK1:

- Start number 14 was manually annotated 2 times for cluster BK1.
- Start number 15 was manually annotated 20 times for cluster BK1.
- Start number 17 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 15 was manually annotated 4 times for cluster BK2.

Info for manual annotations of cluster BM:

- Start number 14 was manually annotated 8 times for cluster BM.

Info for manual annotations of cluster CB:

- Start number 15 was manually annotated 3 times for cluster CB.

Info for manual annotations of cluster CE:

- Start number 13 was manually annotated 1 time for cluster CE.
- Start number 15 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster DK:

- Start number 14 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster FC:

- Start number 12 was manually annotated 7 times for cluster FC.
- Start number 13 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster GD1:

- Start number 12 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 12 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 12 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 12 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_171 Start: 96202, Stop: 96663, Start Num: 12

Candidate Starts for A3Wally_171:

(Start: 12 @96202 has 13 MA's), (16, 96211), (25, 96286), (30, 96331), (32, 96337), (42, 96388), (54, 96427), (55, 96430), (71, 96496), (90, 96589), (100, 96631),

Gene: Annadreamy_152 Start: 82558, Stop: 83025, Start Num: 14

Candidate Starts for Annadreamy_152:

(Start: 14 @82558 has 12 MA's), (21, 82624), (57, 82795), (63, 82816), (65, 82825), (84, 82897), (86, 82915), (89, 82957),

Gene: Artu_53 Start: 20477, Stop: 20983, Start Num: 12

Candidate Starts for Artu_53:

(Start: 12 @20477 has 13 MA's), (25, 20564), (30, 20609), (52, 20702), (64, 20777), (95, 20927),

Gene: Atuin_54 Start: 22728, Stop: 23243, Start Num: 12

Candidate Starts for Atuin_54:

(2, 22548), (4, 22608), (5, 22617), (6, 22662), (7, 22683), (Start: 12 @22728 has 13 MA's), (25, 22815), (30, 22860), (47, 22932), (52, 22959), (64, 23037), (95, 23187), (96, 23193), (105, 23229),

Gene: Belfort_165 Start: 88488, Stop: 88964, Start Num: 15

Candidate Starts for Belfort_165:

(Start: 15 @88488 has 28 MA's), (28, 88608), (36, 88656), (40, 88677), (46, 88689), (55, 88725), (57, 88734), (79, 88812), (86, 88851), (89, 88893), (100, 88935), (103, 88947),

Gene: Beuffert_157 Start: 86417, Stop: 86890, Start Num: 15

Candidate Starts for Beuffert_157:

(Start: 15 @86417 has 28 MA's), (36, 86585), (46, 86618), (57, 86663), (79, 86741), (86, 86780), (89, 86822),

Gene: Big4_163 Start: 93329, Stop: 93793, Start Num: 12

Candidate Starts for Big4_163:

(Start: 12 @93329 has 13 MA's), (22, 93395), (23, 93404), (25, 93413), (30, 93458), (35, 93479), (43, 93518), (48, 93533),

Gene: BillNye_128 Start: 77977, Stop: 78453, Start Num: 15

Candidate Starts for BillNye_128:

(Start: 15 @77977 has 28 MA's), (27, 78088), (28, 78097), (29, 78106), (32, 78115), (43, 78175), (54, 78214), (57, 78226), (58, 78229), (86, 78343), (87, 78364), (98, 78418),

Gene: Bloom_67 Start: 26741, Stop: 27235, Start Num: 12

Candidate Starts for Bloom_67:

(Start: 12 @26741 has 13 MA's), (25, 26828), (30, 26873), (47, 26945), (52, 26972), (64, 27047), (86, 27125), (95, 27182), (105, 27224),

Gene: Blueeyedbeauty_160 Start: 86300, Stop: 86776, Start Num: 15

Candidate Starts for Blueeyedbeauty_160:

(8, 86249), (Start: 15 @86300 has 28 MA's), (36, 86468), (40, 86489), (46, 86501), (55, 86537), (57, 86546), (79, 86624), (86, 86663), (89, 86705), (101, 86753), (103, 86759),

Gene: BooTeria_57 Start: 20901, Stop: 21407, Start Num: 12

Candidate Starts for BooTeria_57:

(Start: 12 @20901 has 13 MA's), (25, 20988), (30, 21033), (52, 21126), (64, 21201), (95, 21351),

Gene: Cece_158 Start: 98749, Stop: 99213, Start Num: 12

Candidate Starts for Cece_158:

(Start: 12 @98749 has 13 MA's), (22, 98815), (25, 98833), (30, 98878), (43, 98938), (81, 99076),

Gene: Chaewon_132 Start: 77909, Stop: 78385, Start Num: 15

Candidate Starts for Chaewon_132:

(Start: 15 @77909 has 28 MA's), (28, 78029), (32, 78047), (49, 78125), (54, 78146), (57, 78158), (58, 78161), (86, 78275), (87, 78296),

Gene: Chilliams_56 Start: 24656, Stop: 25129, Start Num: 12

Candidate Starts for Chilliams_56:

(1, 24473), (3, 24500), (Start: 12 @24656 has 13 MA's), (24, 24740), (25, 24743), (26, 24761), (30, 24788), (57, 24908), (60, 24920), (74, 24974), (83, 25001), (90, 25061), (100, 25100),

Gene: Circinus_129 Start: 77945, Stop: 78421, Start Num: 15

Candidate Starts for Circinus_129:

(Start: 15 @77945 has 28 MA's), (27, 78056), (28, 78065), (29, 78074), (32, 78083), (54, 78182), (57, 78194), (58, 78197), (86, 78311), (87, 78332), (98, 78386),

Gene: Comrade_162 Start: 88690, Stop: 89166, Start Num: 15

Candidate Starts for Comrade_162:

(Start: 15 @88690 has 28 MA's), (28, 88810), (36, 88858), (40, 88879), (46, 88891), (55, 88927), (57, 88936), (79, 89014), (86, 89053), (89, 89095), (100, 89137), (103, 89149),

Gene: DeluluLabubu_173 Start: 89320, Stop: 89808, Start Num: 15

Candidate Starts for DeluluLabubu_173:

(Start: 15 @89320 has 28 MA's), (Start: 17 @89326 has 1 MA's), (28, 89440), (29, 89449), (57, 89578), (86, 89695), (89, 89737), (101, 89785), (103, 89791),

Gene: Dodo_173 Start: 95808, Stop: 96269, Start Num: 12

Candidate Starts for Dodo_173:

(Start: 12 @95808 has 13 MA's), (16, 95817), (25, 95892), (30, 95937), (32, 95943), (42, 95994), (54, 96033), (55, 96036), (71, 96102), (90, 96195), (100, 96237),

Gene: DunneganBoMo_50 Start: 20816, Stop: 21325, Start Num: 12

Candidate Starts for DunneganBoMo_50:

(Start: 12 @20816 has 13 MA's), (25, 20903), (30, 20948), (52, 21041), (64, 21116), (95, 21266), (105, 21308),

Gene: EhyElimayoE_269 Start: 153102, Stop: 152647, Start Num: 14

Candidate Starts for EhyElimayoE_269:

(Start: 14 @153102 has 12 MA's), (31, 152973), (34, 152961), (37, 152937), (39, 152925), (40, 152922), (67, 152835), (90, 152727), (93, 152715), (99, 152685), (107, 152655), (108, 152652),

Gene: Ellewin_52 Start: 20408, Stop: 20902, Start Num: 12

Candidate Starts for Ellewin_52:

(1, 20225), (3, 20252), (Start: 12 @20408 has 13 MA's), (25, 20495), (30, 20540), (40, 20597), (46, 20609), (47, 20612), (52, 20639), (64, 20714), (70, 20744), (95, 20846),

Gene: Emma1919_169 Start: 87379, Stop: 87867, Start Num: 15

Candidate Starts for Emma1919_169:

(Start: 15 @87379 has 28 MA's), (Start: 17 @87385 has 1 MA's), (28, 87499), (29, 87508), (57, 87637), (86, 87754), (89, 87796), (101, 87844), (103, 87850),

Gene: Emmetator_51 Start: 20726, Stop: 21232, Start Num: 12

Candidate Starts for Emmetator_51:

(Start: 12 @20726 has 13 MA's), (25, 20813), (30, 20858), (52, 20951), (64, 21026), (95, 21176), (103, 21215), (105, 21218),

Gene: Erasmago_170 Start: 93706, Stop: 94167, Start Num: 12

Candidate Starts for Erasmago_170:

(Start: 12 @93706 has 13 MA's), (23, 93781), (25, 93790), (26, 93808), (30, 93835), (47, 93904), (55, 93934), (69, 93994), (77, 94015),

Gene: Faust_157 Start: 87675, Stop: 88151, Start Num: 15

Candidate Starts for Faust_157:

(Start: 15 @87675 has 28 MA's), (23, 87753), (34, 87822), (62, 87936), (86, 88041), (89, 88083),

Gene: FloraSnap32_60 Start: 24362, Stop: 24853, Start Num: 12

Candidate Starts for FloraSnap32_60:

(Start: 12 @24362 has 13 MA's), (25, 24449), (26, 24467), (30, 24494), (46, 24563), (61, 24659), (64, 24668), (70, 24698), (95, 24800), (105, 24842),

Gene: Forrest_170 Start: 88362, Stop: 88847, Start Num: 15

Candidate Starts for Forrest_170:

(Start: 15 @88362 has 28 MA's), (28, 88482), (29, 88491), (57, 88620), (86, 88737), (87, 88758),

Gene: Francob_167 Start: 87884, Stop: 88372, Start Num: 15

Candidate Starts for Francob_167:

(Start: 15 @87884 has 28 MA's), (Start: 17 @87890 has 1 MA's), (28, 88004), (38, 88067), (48, 88097), (53, 88127), (55, 88133), (57, 88142), (75, 88211), (79, 88220), (84, 88241), (86, 88259), (89, 88301), (101, 88349), (103, 88355),

Gene: Frankenweenie_287 Start: 164243, Stop: 163782, Start Num: 14

Candidate Starts for Frankenweenie_287:

(Start: 14 @164243 has 12 MA's), (19, 164216), (24, 164165), (37, 164078), (40, 164063), (90, 163868), (93, 163856), (99, 163826),

Gene: FrostedClock_66 Start: 26232, Stop: 26723, Start Num: 12

Candidate Starts for FrostedClock_66:

(Start: 12 @26232 has 13 MA's), (25, 26319), (26, 26337), (30, 26364), (46, 26433), (64, 26538), (70, 26568), (95, 26670), (105, 26712),

Gene: Gilson_168 Start: 87347, Stop: 87829, Start Num: 17

Candidate Starts for Gilson_168:

(Start: 15 @87341 has 28 MA's), (Start: 17 @87347 has 1 MA's), (28, 87461), (29, 87470), (57, 87599), (86, 87716), (89, 87758), (101, 87806), (103, 87812),

Gene: GodonK_50 Start: 16803, Stop: 17243, Start Num: 14

Candidate Starts for GodonK_50:

(11, 16788), (Start: 14 @16803 has 12 MA's), (19, 16830), (22, 16866), (23, 16875), (25, 16884), (35, 16950), (55, 17013), (57, 17022), (67, 17067), (74, 17088), (83, 17115), (86, 17130),

Gene: GoldenEssence_47 Start: 19822, Stop: 20316, Start Num: 12

Candidate Starts for GoldenEssence_47:

(Start: 12 @19822 has 13 MA's), (25, 19909), (30, 19954), (47, 20026), (52, 20053), (64, 20128), (86, 20206), (95, 20263), (105, 20305),

Gene: Grayson_228 Start: 111586, Stop: 112026, Start Num: 15

Candidate Starts for Grayson_228:

(Start: 15 @111586 has 28 MA's), (25, 111664), (27, 111688), (30, 111709), (32, 111715), (35, 111730), (41, 111763), (71, 111865), (86, 111916), (88, 111946), (92, 111967), (94, 111970), (106, 112021),

Gene: Jada_167 Start: 87058, Stop: 87543, Start Num: 15

Candidate Starts for Jada_167:

(Start: 15 @87058 has 28 MA's), (Start: 17 @87064 has 1 MA's), (28, 87178), (29, 87187), (57, 87316), (86, 87433), (87, 87454),

Gene: JustBecause_266 Start: 149782, Stop: 149327, Start Num: 14

Candidate Starts for JustBecause_266:

(Start: 14 @149782 has 12 MA's), (31, 149653), (34, 149641), (37, 149617), (40, 149602), (67, 149515), (85, 149458), (93, 149395), (99, 149365),

Gene: KSunshine22_54 Start: 21439, Stop: 21945, Start Num: 12

Candidate Starts for KSunshine22_54:

(Start: 12 @21439 has 13 MA's), (25, 21526), (30, 21571), (52, 21664), (64, 21739), (95, 21889),

Gene: Karp_159 Start: 87914, Stop: 88390, Start Num: 15

Candidate Starts for Karp_159:

(Start: 15 @87914 has 28 MA's), (36, 88082), (40, 88103), (46, 88115), (55, 88151), (57, 88160), (79, 88238), (86, 88277), (89, 88319), (100, 88361), (103, 88373),

Gene: Kela_266 Start: 151386, Stop: 150931, Start Num: 14

Candidate Starts for Kela_266:

(Start: 14 @151386 has 12 MA's), (31, 151257), (34, 151245), (37, 151221), (40, 151206), (67, 151119), (85, 151062), (90, 151011), (93, 150999), (99, 150969),

Gene: Kenrey_171 Start: 88511, Stop: 88984, Start Num: 15

Candidate Starts for Kenrey_171:

(Start: 15 @88511 has 28 MA's), (Start: 17 @88517 has 1 MA's), (40, 88700), (46, 88712), (47, 88715), (57, 88757), (75, 88826), (79, 88835), (86, 88874),

Gene: Kradal_266 Start: 153099, Stop: 152644, Start Num: 14

Candidate Starts for Kradal_266:

(Start: 14 @153099 has 12 MA's), (31, 152970), (34, 152958), (37, 152934), (39, 152922), (40, 152919), (67, 152832), (90, 152724), (93, 152712), (99, 152682), (107, 152652), (108, 152649),

Gene: Laure_60 Start: 25030, Stop: 25500, Start Num: 12

Candidate Starts for Laure_60:

(Start: 12 @25030 has 13 MA's), (25, 25117), (26, 25135), (30, 25162), (72, 25339), (74, 25345), (85, 25381), (105, 25486),

Gene: LeoJr_58 Start: 22928, Stop: 23443, Start Num: 12

Candidate Starts for LeoJr_58:

(4, 22808), (5, 22817), (6, 22862), (7, 22883), (Start: 12 @22928 has 13 MA's), (25, 23015), (30, 23060), (47, 23132), (52, 23159), (59, 23216), (64, 23237), (95, 23387), (96, 23393), (105, 23429),

Gene: Limpid_159 Start: 87871, Stop: 88338, Start Num: 14

Candidate Starts for Limpid_159:

(Start: 14 @87871 has 12 MA's), (21, 87937), (57, 88108), (63, 88129), (65, 88138), (84, 88210), (86, 88228), (89, 88270),

Gene: Maupel_169 Start: 87341, Stop: 87829, Start Num: 15

Candidate Starts for Maupel_169:

(Start: 15 @87341 has 28 MA's), (Start: 17 @87347 has 1 MA's), (28, 87461), (29, 87470), (57, 87599), (86, 87716), (89, 87758), (101, 87806), (103, 87812),

Gene: MeganTheeKilla_166 Start: 86965, Stop: 87450, Start Num: 15

Candidate Starts for MeganTheeKilla_166:

(Start: 15 @86965 has 28 MA's), (28, 87085), (29, 87094), (57, 87223), (86, 87340), (89, 87382),

Gene: Mimi_63 Start: 26091, Stop: 26582, Start Num: 12

Candidate Starts for Mimi_63:

(Start: 12 @26091 has 13 MA's), (25, 26178), (26, 26196), (30, 26223), (46, 26292), (64, 26397), (70, 26427), (95, 26529), (105, 26571),

Gene: Moab_165 Start: 89688, Stop: 90161, Start Num: 15

Candidate Starts for Moab_165:

(Start: 15 @89688 has 28 MA's), (28, 89808), (40, 89877), (46, 89889), (57, 89934), (79, 90012), (86, 90051), (89, 90093),

Gene: Muntaha_136 Start: 76880, Stop: 77359, Start Num: 15

Candidate Starts for Muntaha_136:

(Start: 15 @76880 has 28 MA's), (40, 77069), (49, 77093), (55, 77117), (57, 77126), (75, 77201), (86, 77249), (87, 77270), (98, 77324),

Gene: NiceHouse_256 Start: 128727, Stop: 129197, Start Num: 13

Candidate Starts for NiceHouse_256:

(Start: 13 @128727 has 2 MA's), (20, 128772), (25, 128808), (30, 128853), (43, 128919), (61, 128982), (76, 129039), (80, 129048), (90, 129120), (94, 129129), (95, 129132), (104, 129171),

Gene: Nirvana_285 Start: 164957, Stop: 164496, Start Num: 14

Candidate Starts for Nirvana_285:

(10, 164975), (Start: 14 @164957 has 12 MA's), (24, 164879), (29, 164834), (34, 164816), (37, 164792), (40, 164777), (67, 164690), (90, 164582), (93, 164570), (99, 164540),

Gene: Panchaali_56 Start: 20358, Stop: 20873, Start Num: 12

Candidate Starts for Panchaali_56:

(Start: 12 @20358 has 13 MA's), (25, 20445), (26, 20463), (30, 20490), (52, 20583), (64, 20658), (71, 20691), (95, 20814), (105, 20856),

Gene: Patbob_60 Start: 25547, Stop: 26038, Start Num: 12

Candidate Starts for Patbob_60:

(Start: 12 @25547 has 13 MA's), (25, 25634), (26, 25652), (30, 25679), (46, 25748), (61, 25844), (64, 25853), (70, 25883), (95, 25985), (105, 26027),

Gene: Patelgo_167 Start: 90380, Stop: 90856, Start Num: 15

Candidate Starts for Patelgo_167:

(Start: 15 @90380 has 28 MA's), (28, 90500), (40, 90569), (46, 90581), (55, 90617), (57, 90626), (79, 90704), (82, 90719), (86, 90743), (89, 90785), (101, 90833), (103, 90839),

Gene: PauloDiaboli_171 Start: 94249, Stop: 94710, Start Num: 12

Candidate Starts for PauloDiaboli_171:

(Start: 12 @94249 has 13 MA's), (16, 94258), (25, 94333), (30, 94378), (32, 94384), (42, 94435), (54, 94474), (55, 94477), (71, 94543), (90, 94636), (100, 94678),

Gene: Peregrin_220 Start: 110987, Stop: 111421, Start Num: 15

Candidate Starts for Peregrin_220:

(Start: 15 @110987 has 28 MA's), (25, 111065), (30, 111110), (33, 111119), (34, 111125), (44, 111170), (50, 111176), (68, 111251), (75, 111272), (82, 111296), (86, 111311), (88, 111341),

Gene: Phendrix_50 Start: 16816, Stop: 17256, Start Num: 14

Candidate Starts for Phendrix_50:

(11, 16801), (Start: 14 @16816 has 12 MA's), (19, 16843), (22, 16879), (23, 16888), (25, 16897), (35, 16963), (55, 17026), (57, 17035), (67, 17080), (74, 17101), (83, 17128), (86, 17143),

Gene: Phrampa_58 Start: 23330, Stop: 23773, Start Num: 12

Candidate Starts for Phrampa_58:

(Start: 12 @23330 has 13 MA's), (25, 23411), (28, 23444), (30, 23456), (39, 23510), (74, 23621), (86, 23663), (105, 23762),

Gene: Phredrick_168 Start: 86854, Stop: 87339, Start Num: 15

Candidate Starts for Phredrick_168:

(Start: 15 @86854 has 28 MA's), (Start: 17 @86860 has 1 MA's), (28, 86974), (38, 87037), (46, 87058), (48, 87067), (57, 87112), (86, 87229), (89, 87271),

Gene: Pumpernickel_167 Start: 96347, Stop: 96799, Start Num: 12

Candidate Starts for Pumpernickel_167:

(Start: 12 @96347 has 13 MA's), (18, 96362), (22, 96413), (25, 96431), (30, 96476), (40, 96530), (45, 96533), (72, 96632), (79, 96650), (91, 96725), (93, 96731), (98, 96755), (100, 96764),

Gene: Quantum_264 Start: 153093, Stop: 152638, Start Num: 14

Candidate Starts for Quantum_264:

(Start: 14 @153093 has 12 MA's), (31, 152964), (34, 152952), (37, 152928), (39, 152916), (40, 152913), (67, 152826), (90, 152718), (93, 152706), (99, 152676), (107, 152646), (108, 152643),

Gene: Racecar_64 Start: 26744, Stop: 27235, Start Num: 12

Candidate Starts for Racecar_64:

(Start: 12 @26744 has 13 MA's), (25, 26831), (26, 26849), (30, 26876), (46, 26945), (64, 27050), (70, 27080), (95, 27182), (105, 27224),

Gene: ReginaGlobina_57 Start: 23125, Stop: 23640, Start Num: 12

Candidate Starts for ReginaGlobina_57:

(4, 23005), (5, 23014), (6, 23059), (7, 23080), (Start: 12 @23125 has 13 MA's), (25, 23212), (30, 23257), (47, 23329), (52, 23356), (64, 23434), (95, 23584), (96, 23590), (105, 23626),

Gene: Rockabye_60 Start: 25473, Stop: 25946, Start Num: 12

Candidate Starts for Rockabye_60:

(9, 25437), (Start: 12 @25473 has 13 MA's), (25, 25560), (26, 25578), (30, 25605), (57, 25725), (74, 25791), (78, 25797), (83, 25818), (90, 25878), (100, 25917), (102, 25926),

Gene: SJReid_63 Start: 26527, Stop: 27021, Start Num: 13

Candidate Starts for SJReid_63:

(Start: 13 @26527 has 2 MA's), (25, 26614), (30, 26659), (57, 26800), (67, 26845), (74, 26866), (90, 26953),

Gene: Sarkar_277 Start: 153144, Stop: 152689, Start Num: 14

Candidate Starts for Sarkar_277:

(Start: 14 @153144 has 12 MA's), (31, 153015), (34, 153003), (37, 152979), (39, 152967), (40, 152964), (67, 152877), (90, 152769), (93, 152757), (99, 152727), (107, 152697), (108, 152694),

Gene: Satis_266 Start: 153436, Stop: 152981, Start Num: 14

Candidate Starts for Satis_266:

(Start: 14 @153436 has 12 MA's), (31, 153307), (34, 153295), (37, 153271), (39, 153259), (40, 153256), (67, 153169), (90, 153061), (93, 153049), (99, 153019), (107, 152989), (108, 152986),

Gene: SeresaTree_159 Start: 87057, Stop: 87533, Start Num: 15

Candidate Starts for SeresaTree_159:

(Start: 15 @87057 has 28 MA's), (23, 87135), (34, 87204), (62, 87318), (86, 87423), (89, 87465),

Gene: Sham_158 Start: 88846, Stop: 89325, Start Num: 15

Candidate Starts for Sham_158:

(Start: 15 @88846 has 28 MA's), (47, 89053), (51, 89068), (57, 89095), (86, 89215), (89, 89257), (97, 89281),

Gene: SparkleGoddess_164 Start: 88701, Stop: 89177, Start Num: 15

Candidate Starts for SparkleGoddess_164:

(Start: 15 @88701 has 28 MA's), (28, 88821), (40, 88890), (46, 88902), (55, 88938), (57, 88947), (75, 89016), (79, 89025), (86, 89064), (89, 89106), (100, 89148), (103, 89160),

Gene: Stewart25555_49 Start: 20428, Stop: 20946, Start Num: 12

Candidate Starts for Stewart25555_49:

(3, 20272), (Start: 12 @20428 has 13 MA's), (25, 20515), (30, 20560), (64, 20734), (84, 20809), (95, 20890), (105, 20932),

Gene: Stigma_163 Start: 89135, Stop: 89611, Start Num: 15

Candidate Starts for Stigma_163:

(Start: 15 @89135 has 28 MA's), (28, 89255), (36, 89303), (40, 89324), (46, 89336), (55, 89372), (57, 89381), (79, 89459), (86, 89498), (89, 89540), (100, 89582), (103, 89594),

Gene: Talia1610_63 Start: 26109, Stop: 26600, Start Num: 12

Candidate Starts for Talia1610_63:

(Start: 12 @26109 has 13 MA's), (25, 26196), (26, 26214), (30, 26241), (46, 26310), (64, 26415), (70, 26445), (95, 26547), (105, 26589),

Gene: Trina_253 Start: 127069, Stop: 127509, Start Num: 15

Candidate Starts for Trina_253:

(Start: 15 @127069 has 28 MA's), (19, 127093), (22, 127129), (25, 127147), (30, 127192), (57, 127294), (68, 127342), (90, 127447),

Gene: TunaTartare_164 Start: 90092, Stop: 90559, Start Num: 15

Candidate Starts for TunaTartare_164:

(Start: 15 @90092 has 28 MA's), (21, 90158), (56, 90323), (57, 90329), (63, 90350), (73, 90395), (86, 90449), (89, 90491), (97, 90515),

Gene: WaddleDee_49 Start: 20852, Stop: 21361, Start Num: 12

Candidate Starts for WaddleDee_49:

(Start: 12 @20852 has 13 MA's), (25, 20939), (30, 20984), (52, 21077), (64, 21152), (95, 21302), (105, 21344),

Gene: Wakanda_135 Start: 76822, Stop: 77301, Start Num: 15

Candidate Starts for Wakanda_135:

(Start: 15 @76822 has 28 MA's), (40, 77011), (49, 77035), (55, 77059), (57, 77068), (75, 77143), (86, 77191), (87, 77212), (98, 77266),

Gene: Weasels2_231 Start: 113792, Stop: 114247, Start Num: 15

Candidate Starts for Weasels2_231:

(Start: 15 @113792 has 28 MA's), (23, 113861), (25, 113870), (27, 113894), (30, 113915), (43, 113975), (66, 114065), (94, 114191), (106, 114242),

Gene: Westy_167 Start: 89450, Stop: 89926, Start Num: 15

Candidate Starts for Westy_167:

(Start: 15 @89450 has 28 MA's), (28, 89570), (36, 89618), (40, 89639), (46, 89651), (55, 89687), (57, 89696), (79, 89774), (86, 89813), (89, 89855), (100, 89897), (103, 89909),

Gene: Zooman_150 Start: 90927, Stop: 91391, Start Num: 12

Candidate Starts for Zooman_150:

(Start: 12 @90927 has 13 MA's), (22, 90993), (23, 91002), (25, 91011), (30, 91056), (40, 91110), (43, 91116), (48, 91131),