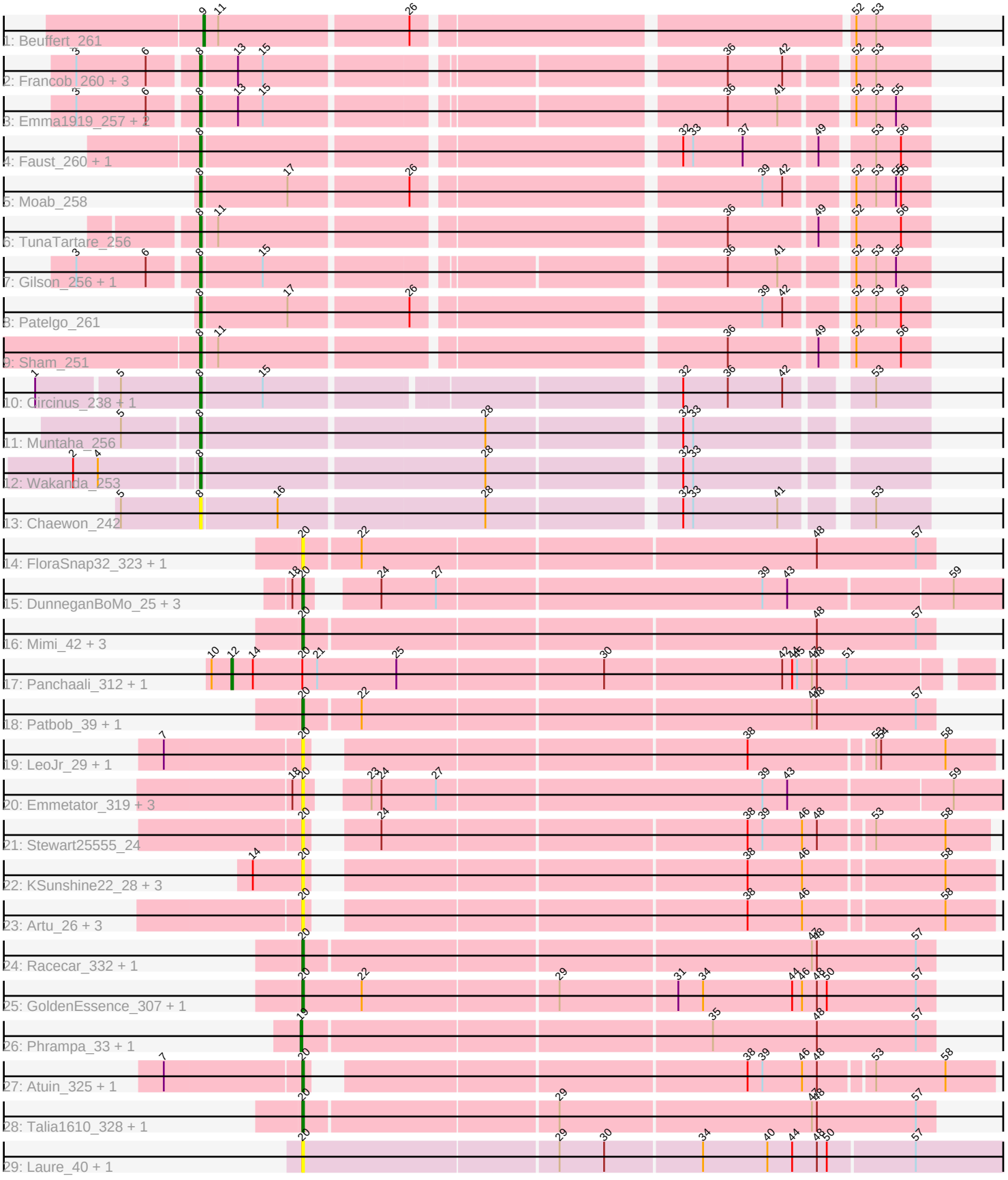
Pham 287910


1: Beuffert_261
2: Francob_260 + 3
3: Emma1919_257 + 2
4: Faust_260 + 1
5: Moab_258
6: TunaTartare_256
7: Gilson_256 + 1
8: Patelgo_261
9: Sham_251
10: Circinus_238 + 1
11: Muntaha_256
12: Wakanda_253
13: Chaewon_242
14: FloraSnap32_323 + 1
15: DunneganBoMo_25 + 3
16: Mimi_42 + 3
17: Panchaali_312 + 1
18: Patbob_39 + 1
19: LeoJr_29 + 1
20: Emmetator_319 + 3
21: Stewart25555_24
22: KSunshine22_28 + 3
23: Artu_26 + 3
24: Racecar_332 + 1
25: GoldenEssence_307 + 1
26: Phrampa_33 + 1
27: Atuin_325 + 1
28: Talia1610_328 + 1
29: Laure_40 + 1

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 287910 Report

This analysis was run 03/28/26 on database version 641.

Pham number 287910 has 62 members, 24 are drafts.

Phages represented in each track:
• Track 1 : Beuffert_261
• Track 2 : Francob_260, Forrest_256, DeluluLabubu_259, Jada_257
• Track 3 : Emma1919_257, MeganTheeKilla_258, Phredrick_262
• Track 4 : Faust_260, SeresaTree_265
• Track 5 : Moab_258
• Track 6 : TunaTartare_256
• Track 7 : Gilson_256, Maupel_262
• Track 8 : Patelgo_261
• Track 9 : Sham_251
• Track 10 : Circinus_238, BillNye_239
• Track 11 : Muntaha_256
• Track 12 : Wakanda_253
• Track 13 : Chaewon_242
• Track 14 : FloraSnap32_323, FloraSnap32_38
• Track 15 : DunneganBoMo_25, WaddleDee_315, DunneganBoMo_320, WaddleDee_24
• Track 16 : Mimi_42, FrostedClock_45, FrostedClock_330, Mimi_327
• Track 17 : Panchaali_312, Panchaali_25
• Track 18 : Patbob_39, Patbob_325
• Track 19 : LeoJr_29, LeoJr_342
• Track 20 : Emmetator_319, BooTeria_327, BooTeria_28, Emmetator_25
• Track 21 : Stewart25555_24
• Track 22 : KSunshine22_28, ReginaGlobina_339, ReginaGlobina_28, KSunshine22_320
• Track 23 : Artu_26, Artu_313, Ellewin_26, Ellewin_325
• Track 24 : Racecar_332, Racecar_43
• Track 25 : GoldenEssence_307, GoldenEssence_26
• Track 26 : Phrampa_33, Phrampa_317
• Track 27 : Atuin_325, Atuin_25
• Track 28 : Talia1610_328, Talia1610_42
• Track 29 : Laure_40, Laure_358

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

The start number called the most often in the published annotations is 8, it was called in 17 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BillNye_239, Chaewon_242, Circinus_238, DeluluLabubu_259, Emma1919_257, Faust_260, Forrest_256, Francob_260, Gilson_256, Jada_257, Maupel_262, MeganTheeKilla_258, Moab_258, Muntaha_256, Patelgo_261, Phredrick_262, SeresaTree_265, Sham_251, TunaTartare_256, Wakanda_253,

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

Genes that do not have the "Most Annotated" start:
• Artu_26, Artu_313, Atuin_25, Atuin_325, Beuffert_261, BooTeria_28, BooTeria_327, DunneganBoMo_25, DunneganBoMo_320, Ellewin_26, Ellewin_325, Emmetator_25, Emmetator_319, FloraSnap32_323, FloraSnap32_38, FrostedClock_330, FrostedClock_45, GoldenEssence_26, GoldenEssence_307, KSunshine22_28, KSunshine22_320, Laure_358, Laure_40, LeoJr_29, LeoJr_342, Mimi_327, Mimi_42, Panchaali_25, Panchaali_312, Patbob_325, Patbob_39, Phrampa_317, Phrampa_33, Racecar_332, Racecar_43, ReginaGlobina_28, ReginaGlobina_339, Stewart25555_24, Talia1610_328, Talia1610_42, WaddleDee_24, WaddleDee_315,

Summary by start number:

Start 8:
• Found in 20 of 62 (32.3%) of genes in pham
• Manual Annotations of this start: 17 of 38
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BillNye_239 (BK2), Chaewon_242 (BK2), Circinus_238 (BK2), DeluluLabubu_259 (BK1), Emma1919_257 (BK1), Faust_260 (BK1), Forrest_256 (BK1), Francob_260 (BK1), Gilson_256 (BK1), Jada_257 (BK1), Maupel_262 (BK1), MeganTheeKilla_258 (BK1), Moab_258 (BK1), Muntaha_256 (BK2), Patelgo_261 (BK1), Phredrick_262 (BK1), SeresaTree_265 (BK1), Sham_251 (BK1), TunaTartare_256 (BK1), Wakanda_253 (BK2),

Start 9:
• Found in 1 of 62 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 38
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beuffert_261 (BK1),

Start 12:
• Found in 2 of 62 (3.2%) of genes in pham
• Manual Annotations of this start: 2 of 38
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Panchaali_25 (FC), Panchaali_312 (FC),

Start 19:
• Found in 2 of 62 (3.2%) of genes in pham
• Manual Annotations of this start: 2 of 38
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phrampa_317 (FC), Phrampa_33 (FC),

Start 20:
• Found in 39 of 62 (62.9%) of genes in pham
• Manual Annotations of this start: 16 of 38
• Called 94.9% of time when present
• Phage (with cluster) where this start called: Artu_26 (FC), Artu_313 (FC), Atuin_25 (FC), Atuin_325 (FC), BooTeria_28 (FC), BooTeria_327 (FC), DunneganBoMo_25 (FC), DunneganBoMo_320 (FC), Ellewin_26 (FC), Ellewin_325 (FC), Emmetator_25 (FC), Emmetator_319 (FC), FloraSnap32_323 (FC), FloraSnap32_38 (FC), FrostedClock_330 (FC), FrostedClock_45 (FC), GoldenEssence_26 (FC), GoldenEssence_307 (FC), KSunshine22_28 (FC), KSunshine22_320 (FC), Laure_358 (UNK), Laure_40 (UNK), LeoJr_29 (FC), LeoJr_342 (FC), Mimi_327 (FC), Mimi_42 (FC), Patbob_325 (FC), Patbob_39 (FC), Racecar_332 (FC), Racecar_43 (FC), ReginaGlobina_28 (FC), ReginaGlobina_339 (FC), Stewart25555_24 (FC), Talia1610_328 (FC), Talia1610_42 (FC), WaddleDee_24 (FC), WaddleDee_315 (FC),

Summary by clusters:

There are 4 clusters represented in this pham: UNK, FC, BK1, BK2,

Info for manual annotations of cluster BK1:
•Start number 8 was manually annotated 13 times for cluster BK1.
•Start number 9 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 8 was manually annotated 4 times for cluster BK2.

Info for manual annotations of cluster FC:
•Start number 12 was manually annotated 2 times for cluster FC.
•Start number 19 was manually annotated 2 times for cluster FC.
•Start number 20 was manually annotated 16 times for cluster FC.

Gene Information:

Gene: Artu_26 Start: 10868, Stop: 11251, Start Num: 20
Candidate Starts for Artu_26:
(Start: 20 @10868 has 16 MA's), (38, 11108), (46, 11141), (58, 11222),

Gene: Artu_313 Start: 190022, Stop: 190405, Start Num: 20
Candidate Starts for Artu_313:
(Start: 20 @190022 has 16 MA's), (38, 190262), (46, 190295), (58, 190376),

Gene: Atuin_325 Start: 189103, Stop: 189486, Start Num: 20
Candidate Starts for Atuin_325:
(7, 189022), (Start: 20 @189103 has 16 MA's), (38, 189343), (39, 189352), (46, 189376), (48, 189385), (53, 189415), (58, 189457),

Gene: Atuin_25 Start: 12215, Stop: 12598, Start Num: 20
Candidate Starts for Atuin_25:
(7, 12134), (Start: 20 @12215 has 16 MA's), (38, 12455), (39, 12464), (46, 12488), (48, 12497), (53, 12527), (58, 12569),

Gene: Beuffert_261 Start: 124352, Stop: 124762, Start Num: 9
Candidate Starts for Beuffert_261:
(Start: 9 @124352 has 1 MA's), (11, 124361), (26, 124472), (52, 124718), (53, 124730),

Gene: BillNye_239 Start: 121180, Stop: 121578, Start Num: 8
Candidate Starts for BillNye_239:
(1, 121084), (5, 121132), (Start: 8 @121180 has 17 MA's), (15, 121216), (32, 121444), (36, 121471), (42, 121504), (53, 121546),

Gene: BooTeria_327 Start: 190316, Stop: 190726, Start Num: 20
Candidate Starts for BooTeria_327:
(18, 190310), (Start: 20 @190316 has 16 MA's), (23, 190340), (24, 190346), (27, 190379), (39, 190571), (43, 190586), (59, 190682),

Gene: BooTeria_28 Start: 11407, Stop: 11817, Start Num: 20
Candidate Starts for BooTeria_28:
(18, 11401), (Start: 20 @11407 has 16 MA's), (23, 11431), (24, 11437), (27, 11470), (39, 11662), (43, 11677), (59, 11773),

Gene: Chaewon_242 Start: 122004, Stop: 122411, Start Num: 8
Candidate Starts for Chaewon_242:
(5, 121956), (Start: 8 @122004 has 17 MA's), (16, 122049), (28, 122169), (32, 122277), (33, 122283), (41, 122334), (53, 122379),

Gene: Circinus_238 Start: 120687, Stop: 121085, Start Num: 8
Candidate Starts for Circinus_238:
(1, 120591), (5, 120639), (Start: 8 @120687 has 17 MA's), (15, 120723), (32, 120951), (36, 120978), (42, 121011), (53, 121053),

Gene: DeluluLababu_259 Start: 123060, Stop: 123458, Start Num: 8
Candidate Starts for DeluluLababu_259:
(3, 122991), (6, 123033), (Start: 8 @123060 has 17 MA's), (13, 123081), (15, 123096), (36, 123348), (42, 123381), (52, 123414), (53, 123426),

Gene: DunneganBoMo_25 Start: 11393, Stop: 11803, Start Num: 20
Candidate Starts for DunneganBoMo_25:
(18, 11387), (Start: 20 @11393 has 16 MA's), (24, 11423), (27, 11456), (39, 11648), (43, 11663), (59, 11759),

Gene: DunneganBoMo_320 Start: 190805, Stop: 191215, Start Num: 20
Candidate Starts for DunneganBoMo_320:
(18, 190799), (Start: 20 @190805 has 16 MA's), (24, 190835), (27, 190868), (39, 191060), (43, 191075), (59, 191171),

Gene: Ellewin_26 Start: 11395, Stop: 11778, Start Num: 20
Candidate Starts for Ellewin_26:
(Start: 20 @11395 has 16 MA's), (38, 11635), (46, 11668), (58, 11749),

Gene: Ellewin_325 Start: 190509, Stop: 190892, Start Num: 20
Candidate Starts for Ellewin_325:
(Start: 20 @190509 has 16 MA's), (38, 190749), (46, 190782), (58, 190863),

Gene: Emma1919_257 Start: 122129, Stop: 122527, Start Num: 8
Candidate Starts for Emma1919_257:
(3, 122060), (6, 122102), (Start: 8 @122129 has 17 MA's), (13, 122150), (15, 122165), (36, 122417), (41, 122447), (52, 122483), (53, 122495), (55, 122507),

Gene: Emmetator_319 Start: 189542, Stop: 189952, Start Num: 20
Candidate Starts for Emmetator_319:
(18, 189536), (Start: 20 @189542 has 16 MA's), (23, 189566), (24, 189572), (27, 189605), (39, 189797), (43, 189812), (59, 189908),

Gene: Emmetator_25 Start: 11242, Stop: 11652, Start Num: 20
Candidate Starts for Emmetator_25:
(18, 11236), (Start: 20 @11242 has 16 MA's), (23, 11266), (24, 11272), (27, 11305), (39, 11497), (43, 11512), (59, 11608),

Gene: Faust_260 Start: 125140, Stop: 125544, Start Num: 8
Candidate Starts for Faust_260:
(Start: 8 @125140 has 17 MA's), (32, 125407), (33, 125413), (37, 125443), (49, 125485), (53, 125512), (56, 125527),

Gene: FloraSnap32_323 Start: 190750, Stop: 190379, Start Num: 20
Candidate Starts for FloraSnap32_323:
(Start: 20 @190750 has 16 MA's), (22, 190717), (48, 190450), (57, 190390),

Gene: FloraSnap32_38 Start: 16612, Stop: 16241, Start Num: 20
Candidate Starts for FloraSnap32_38:
(Start: 20 @16612 has 16 MA's), (22, 16579), (48, 16312), (57, 16252),

Gene: Forrest_256 Start: 122869, Stop: 123267, Start Num: 8
Candidate Starts for Forrest_256:
(3, 122800), (6, 122842), (Start: 8 @122869 has 17 MA's), (13, 122890), (15, 122905), (36, 123157), (42, 123190), (52, 123223), (53, 123235),

Gene: Francob_260 Start: 123232, Stop: 123630, Start Num: 8
Candidate Starts for Francob_260:
(3, 123163), (6, 123205), (Start: 8 @123232 has 17 MA's), (13, 123253), (15, 123268), (36, 123520), (42, 123553), (52, 123586), (53, 123598),

Gene: FrostedClock_45 Start: 18338, Stop: 17967, Start Num: 20
Candidate Starts for FrostedClock_45:
(Start: 20 @18338 has 16 MA's), (48, 18038), (57, 17978),

Gene: FrostedClock_330 Start: 192138, Stop: 191767, Start Num: 20
Candidate Starts for FrostedClock_330:
(Start: 20 @192138 has 16 MA's), (48, 191838), (57, 191778),

Gene: Gilson_256 Start: 122487, Stop: 122885, Start Num: 8
Candidate Starts for Gilson_256:
(3, 122418), (6, 122460), (Start: 8 @122487 has 17 MA's), (15, 122523), (36, 122775), (41, 122805), (52, 122841), (53, 122853), (55, 122865),

Gene: GoldenEssence_307 Start: 182536, Stop: 182162, Start Num: 20
Candidate Starts for GoldenEssence_307:

(Start: 20 @182536 has 16 MA's), (22, 182500), (29, 182386), (31, 182317), (34, 182302), (44, 182248), (46, 182242), (48, 182233), (50, 182227), (57, 182173),

Gene: GoldenEssence_26 Start: 11983, Stop: 11609, Start Num: 20
Candidate Starts for GoldenEssence_26:
(Start: 20 @11983 has 16 MA's), (22, 11947), (29, 11833), (31, 11764), (34, 11749), (44, 11695), (46, 11689), (48, 11680), (50, 11674), (57, 11620),

Gene: Jada_257 Start: 122109, Stop: 122507, Start Num: 8
Candidate Starts for Jada_257:
(3, 122040), (6, 122082), (Start: 8 @122109 has 17 MA's), (13, 122130), (15, 122145), (36, 122397), (42, 122430), (52, 122463), (53, 122475),

Gene: KSunshine22_28 Start: 11984, Stop: 12367, Start Num: 20
Candidate Starts for KSunshine22_28:
(14, 11954), (Start: 20 @11984 has 16 MA's), (38, 12224), (46, 12257), (58, 12338),

Gene: KSunshine22_320 Start: 188885, Stop: 189268, Start Num: 20
Candidate Starts for KSunshine22_320:
(14, 188855), (Start: 20 @188885 has 16 MA's), (38, 189125), (46, 189158), (58, 189239),

Gene: Laure_40 Start: 17308, Stop: 16874, Start Num: 20
Candidate Starts for Laure_40:
(Start: 20 @17308 has 16 MA's), (29, 17158), (30, 17131), (34, 17074), (40, 17035), (44, 17020), (48, 17005), (50, 16999), (57, 16948),

Gene: Laure_358 Start: 185656, Stop: 185222, Start Num: 20
Candidate Starts for Laure_358:
(Start: 20 @185656 has 16 MA's), (29, 185506), (30, 185479), (34, 185422), (40, 185383), (44, 185368), (48, 185353), (50, 185347), (57, 185296),

Gene: LeoJr_29 Start: 12519, Stop: 12902, Start Num: 20
Candidate Starts for LeoJr_29:
(7, 12438), (Start: 20 @12519 has 16 MA's), (38, 12759), (53, 12831), (54, 12834), (58, 12873),

Gene: LeoJr_342 Start: 189822, Stop: 190205, Start Num: 20
Candidate Starts for LeoJr_342:
(7, 189741), (Start: 20 @189822 has 16 MA's), (38, 190062), (53, 190134), (54, 190137), (58, 190176),

Gene: Maupel_262 Start: 121680, Stop: 122078, Start Num: 8
Candidate Starts for Maupel_262:
(3, 121611), (6, 121653), (Start: 8 @121680 has 17 MA's), (15, 121716), (36, 121968), (41, 121998), (52, 122034), (53, 122046), (55, 122058),

Gene: MeganTheeKilla_258 Start: 122298, Stop: 122696, Start Num: 8
Candidate Starts for MeganTheeKilla_258:
(3, 122229), (6, 122271), (Start: 8 @122298 has 17 MA's), (13, 122319), (15, 122334), (36, 122586), (41, 122616), (52, 122652), (53, 122664), (55, 122676),

Gene: Mimi_42 Start: 18233, Stop: 17862, Start Num: 20
Candidate Starts for Mimi_42:
(Start: 20 @18233 has 16 MA's), (48, 17933), (57, 17873),

Gene: Mimi_327 Start: 190893, Stop: 190522, Start Num: 20
Candidate Starts for Mimi_327:
(Start: 20 @190893 has 16 MA's), (48, 190593), (57, 190533),

Gene: Moab_258 Start: 124224, Stop: 124628, Start Num: 8
Candidate Starts for Moab_258:
(Start: 8 @124224 has 17 MA's), (17, 124275), (26, 124344), (39, 124539), (42, 124551), (52, 124584), (53, 124596), (55, 124608), (56, 124611),

Gene: Muntaha_256 Start: 121984, Stop: 122391, Start Num: 8
Candidate Starts for Muntaha_256:
(5, 121939), (Start: 8 @121984 has 17 MA's), (28, 122149), (32, 122257), (33, 122263),

Gene: Panchaali_312 Start: 189778, Stop: 190218, Start Num: 12
Candidate Starts for Panchaali_312:
(10, 189766), (Start: 12 @189778 has 2 MA's), (14, 189790), (Start: 20 @189820 has 16 MA's), (21, 189829), (25, 189877), (30, 189997), (42, 190102), (44, 190108), (45, 190111), (47, 190120), (48, 190123), (51, 190141),

Gene: Panchaali_25 Start: 10720, Stop: 11160, Start Num: 12
Candidate Starts for Panchaali_25:
(10, 10708), (Start: 12 @10720 has 2 MA's), (14, 10732), (Start: 20 @10762 has 16 MA's), (21, 10771), (25, 10819), (30, 10939), (42, 11044), (44, 11050), (45, 11053), (47, 11062), (48, 11065), (51, 11083),

Gene: Patbob_39 Start: 17797, Stop: 17426, Start Num: 20
Candidate Starts for Patbob_39:
(Start: 20 @17797 has 16 MA's), (22, 17764), (47, 17500), (48, 17497), (57, 17437),

Gene: Patbob_325 Start: 193256, Stop: 192885, Start Num: 20
Candidate Starts for Patbob_325:
(Start: 20 @193256 has 16 MA's), (22, 193223), (47, 192959), (48, 192956), (57, 192896),

Gene: Patelgo_261 Start: 125171, Stop: 125575, Start Num: 8
Candidate Starts for Patelgo_261:
(Start: 8 @125171 has 17 MA's), (17, 125222), (26, 125291), (39, 125486), (42, 125498), (52, 125531), (53, 125543), (56, 125558),

Gene: Phrampa_33 Start: 15055, Stop: 14684, Start Num: 19
Candidate Starts for Phrampa_33:
(Start: 19 @15055 has 2 MA's), (35, 14818), (48, 14755), (57, 14695),

Gene: Phrampa_317 Start: 191426, Stop: 191055, Start Num: 19
Candidate Starts for Phrampa_317:
(Start: 19 @191426 has 2 MA's), (35, 191189), (48, 191126), (57, 191066),

Gene: Phredrick_262 Start: 122980, Stop: 123378, Start Num: 8
Candidate Starts for Phredrick_262:
(3, 122911), (6, 122953), (Start: 8 @122980 has 17 MA's), (13, 123001), (15, 123016), (36, 123268), (41, 123298), (52, 123334), (53, 123346), (55, 123358),

Gene: Racecar_332 Start: 192542, Stop: 192171, Start Num: 20
Candidate Starts for Racecar_332:
(Start: 20 @192542 has 16 MA's), (47, 192245), (48, 192242), (57, 192182),

Gene: Racecar_43 Start: 18833, Stop: 18462, Start Num: 20
Candidate Starts for Racecar_43:
(Start: 20 @18833 has 16 MA's), (47, 18536), (48, 18533), (57, 18473),

Gene: ReginaGlobina_339 Start: 190160, Stop: 190543, Start Num: 20
Candidate Starts for ReginaGlobina_339:
(14, 190130), (Start: 20 @190160 has 16 MA's), (38, 190400), (46, 190433), (58, 190514),

Gene: ReginaGlobina_28 Start: 12713, Stop: 13096, Start Num: 20
Candidate Starts for ReginaGlobina_28:
(14, 12683), (Start: 20 @12713 has 16 MA's), (38, 12953), (46, 12986), (58, 13067),

Gene: SeresaTree_265 Start: 125361, Stop: 125765, Start Num: 8
Candidate Starts for SeresaTree_265:
(Start: 8 @125361 has 17 MA's), (32, 125628), (33, 125634), (37, 125664), (49, 125706), (53, 125733), (56, 125748),

Gene: Sham_251 Start: 125060, Stop: 125464, Start Num: 8
Candidate Starts for Sham_251:
(Start: 8 @125060 has 17 MA's), (11, 125069), (36, 125354), (49, 125405), (52, 125420), (56, 125447),

Gene: Stewart25555_24 Start: 11002, Stop: 11382, Start Num: 20
Candidate Starts for Stewart25555_24:
(Start: 20 @11002 has 16 MA's), (24, 11029), (38, 11242), (39, 11251), (46, 11275), (48, 11284), (53, 11314), (58, 11356),

Gene: Talia1610_328 Start: 192723, Stop: 192352, Start Num: 20
Candidate Starts for Talia1610_328:
(Start: 20 @192723 has 16 MA's), (29, 192576), (47, 192426), (48, 192423), (57, 192363),

Gene: Talia1610_42 Start: 18251, Stop: 17880, Start Num: 20
Candidate Starts for Talia1610_42:
(Start: 20 @18251 has 16 MA's), (29, 18104), (47, 17954), (48, 17951), (57, 17891),

Gene: TunaTartare_256 Start: 125920, Stop: 126324, Start Num: 8
Candidate Starts for TunaTartare_256:
(Start: 8 @125920 has 17 MA's), (11, 125929), (36, 126214), (49, 126265), (52, 126280), (56, 126307),

Gene: WaddleDee_315 Start: 189334, Stop: 189744, Start Num: 20
Candidate Starts for WaddleDee_315:
(18, 189328), (Start: 20 @189334 has 16 MA's), (24, 189364), (27, 189397), (39, 189589), (43, 189604), (59, 189700),

Gene: WaddleDee_24 Start: 11139, Stop: 11549, Start Num: 20
Candidate Starts for WaddleDee_24:
(18, 11133), (Start: 20 @11139 has 16 MA's), (24, 11169), (27, 11202), (39, 11394), (43, 11409), (59, 11505),

Gene: Wakanda_253 Start: 121195, Stop: 121602, Start Num: 8
Candidate Starts for Wakanda_253:
(2, 121123), (4, 121138), (Start: 8 @121195 has 17 MA's), (28, 121360), (32, 121468), (33, 121474),