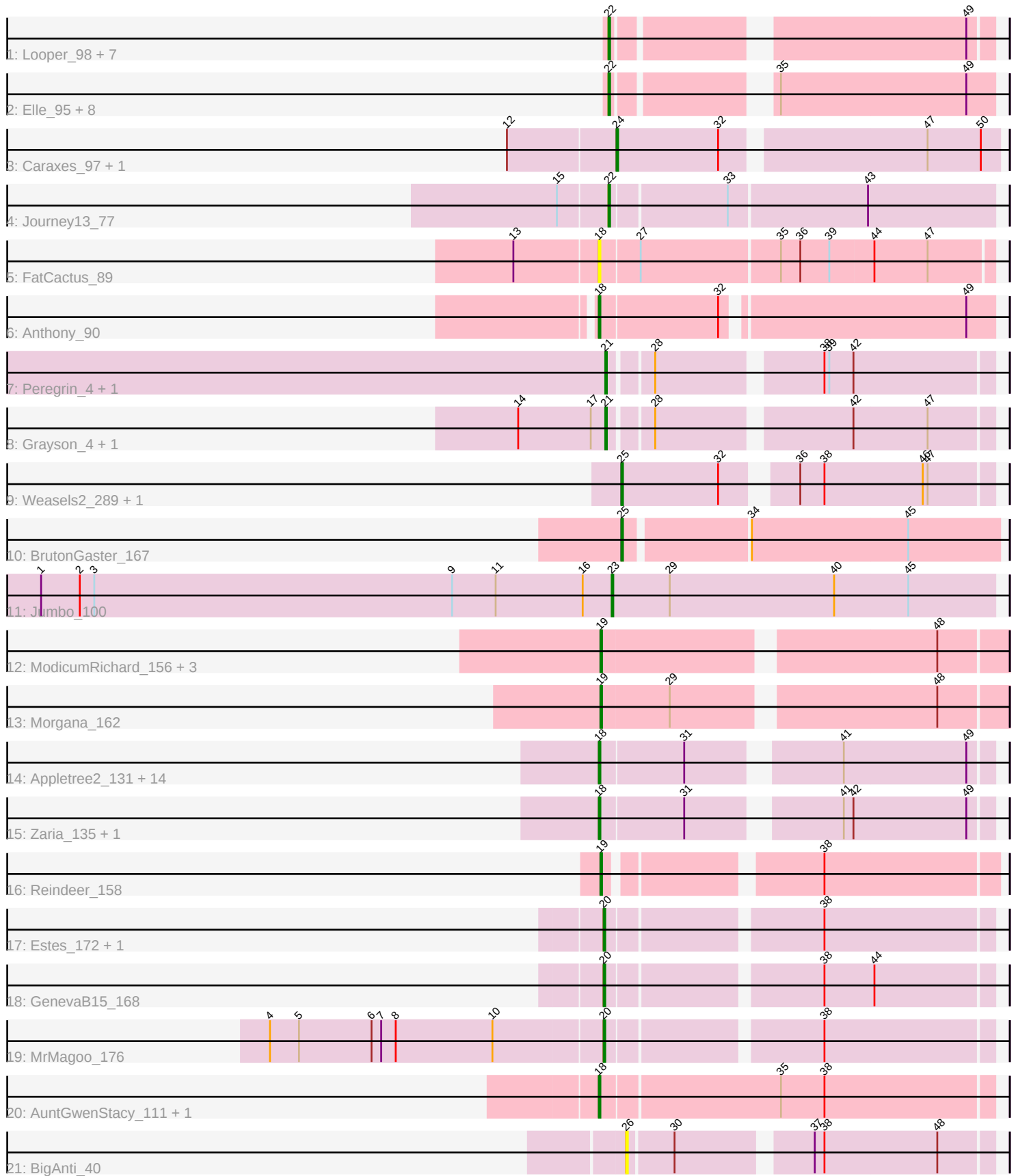


Pham 330885



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 330885 Report

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

Pham number 330885 has 60 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Looper_98, ReMo_99, LastResort_99, Nebulosus_98, JSwag_102, Soups_101, Boohoo_100, Anaysia_101
- Track 2 : Elle_95, MinecraftSteve_101, Switzerland_99, KatherineG_100, Battleship_103, Waits_100, ShayRa_99, Rosalind_101, DekHockey33_103
- Track 3 : Caraxes_97, Superchunk_96
- Track 4 : Journey13_77
- Track 5 : FatCactus_89
- Track 6 : Anthony_90
- Track 7 : Peregrin_4, Peregrin_283
- Track 8 : Grayson_4, Grayson_287
- Track 9 : Weasels2_289, Weasels2_3
- Track 10 : BrutonGaster_167
- Track 11 : Jumbo_100
- Track 12 : ModicumRichard_156, ObLaDi_156, Cafasso_156, Aleemily_154
- Track 13 : Morgana_162
- Track 14 : Appletree2_131, AvadaKedavra_131, JoeDirt_132, CicholasNage_121, Halena_130, Poochiewood_123, MAckerman_131, LeBron_130, Rose5_131, OhShagHennessy_123, UPIE_129, Tyson_132, Wamburgxpress_134, Wyatt2_130, Acquire49_130
- Track 15 : Zaria_135, Calm_137
- Track 16 : Reindeer_158
- Track 17 : Estes_172, Aziz_172
- Track 18 : GenevaB15_168
- Track 19 : MrMagoo_176
- Track 20 : AuntGwenStacy_111, Typha_110
- Track 21 : BigAnti_40

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

The start number called the most often in the published annotations is 18, it was called in 19 of the 56 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acquire49_130, Anthony_90, Appletree2_131, AuntGwenStacy_111, AvadaKedavra_131, Calm_137, CicholasNage_121, FatCactus_89, Halena_130, JoeDirt_132, LeBron_130, MAckerman_131, OhShagHennessy_123, Poochiewood_123, Rose5_131, Typha_110, Tyson_132, UPIE_129, Wamburgrxpress_134, Wyatt2_130, Zaria_135,

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

-

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

- Aleemily_154, Anaysia_101, Aziz_172, Battleship_103, BigAnti_40, Boohoo_100, BrutonGaster_167, Cafasso_156, Caraxes_97, DekHockey33_103, Elle_95, Estes_172, GenevaB15_168, Grayson_287, Grayson_4, JSwag_102, Journey13_77, Jumbo_100, KatherineG_100, LastResort_99, Looper_98, MinecraftSteve_101, ModicumRichard_156, Morgana_162, MrMagoo_176, Nebulosus_98, ObLaDi_156, Peregrin_283, Peregrin_4, ReMo_99, Reindeer_158, Rosalind_101, ShayRa_99, Soups_101, Superchunk_96, Switzerland_99, Waits_100, Weasels2_289, Weasels2_3,

Summary by start number:

Start 18:

- Found in 21 of 60 (35.0%) of genes in pham
- Manual Annotations of this start: 19 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acquire49_130 (L1), Anthony_90 (A20), Appletree2_131 (L1), AuntGwenStacy_111 (Y), AvadaKedavra_131 (L1), Calm_137 (L1), CicholasNage_121 (L1), FatCactus_89 (A20), Halena_130 (L1), JoeDirt_132 (L1), LeBron_130 (L1), MAckerman_131 (L1), OhShagHennessy_123 (L1), Poochiewood_123 (L1), Rose5_131 (L1), Typha_110 (Y), Tyson_132 (L1), UPIE_129 (L1), Wamburgrxpress_134 (L1), Wyatt2_130 (L1), Zaria_135 (L1),

Start 19:

- Found in 6 of 60 (10.0%) of genes in pham
- Manual Annotations of this start: 6 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aleemily_154 (DZ), Cafasso_156 (DZ), ModicumRichard_156 (DZ), Morgana_162 (DZ), ObLaDi_156 (DZ), Reindeer_158 (M1),

Start 20:

- Found in 4 of 60 (6.7%) of genes in pham
- Manual Annotations of this start: 4 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aziz_172 (M2), Estes_172 (M2), GenevaB15_168 (M2), MrMagoo_176 (M2),

Start 21:

- Found in 4 of 60 (6.7%) of genes in pham
- Manual Annotations of this start: 4 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_287 (CB), Grayson_4 (CB), Peregrin_283 (CB), Peregrin_4 (CB),

Start 22:

- Found in 18 of 60 (30.0%) of genes in pham
- Manual Annotations of this start: 18 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anaysia_101 (A15), Battleship_103 (A15), Boohoo_100 (A15), DekHockey33_103 (A15), Elle_95 (A15), JSwag_102 (A15), Journey13_77 (A2), KatherineG_100 (A15), LastResort_99 (A15), Looper_98 (A15), MinecraftSteve_101 (A15), Nebulosus_98 (A15), ReMo_99 (A15), Rosalind_101 (A15), ShayRa_99 (A15), Soups_101 (A15), Switzerland_99 (A15), Waits_100 (A15),

Start 23:

- Found in 1 of 60 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jumbo_100 (DF3),

Start 24:

- Found in 2 of 60 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Caraxes_97 (A2), Superchunk_96 (A2),

Start 25:

- Found in 3 of 60 (5.0%) of genes in pham
- Manual Annotations of this start: 3 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrutonGaster_167 (CQ2), Weasels2_289 (CB), Weasels2_3 (CB),

Start 26:

- Found in 1 of 60 (1.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigAnti_40 (singleton),

Summary by clusters:

There are 12 clusters represented in this pham: A20, A15, singleton, CQ2, CB, L1, DF3, A2, DZ, M2, Y, M1,

Info for manual annotations of cluster A15:

- Start number 22 was manually annotated 17 times for cluster A15.

Info for manual annotations of cluster A2:

- Start number 22 was manually annotated 1 time for cluster A2.
- Start number 24 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:

- Start number 18 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster CB:

- Start number 21 was manually annotated 4 times for cluster CB.
- Start number 25 was manually annotated 2 times for cluster CB.

Info for manual annotations of cluster CQ2:

- Start number 25 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DF3:

- Start number 23 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DZ:

- Start number 19 was manually annotated 5 times for cluster DZ.

Info for manual annotations of cluster L1:

- Start number 18 was manually annotated 16 times for cluster L1.

Info for manual annotations of cluster M1:

- Start number 19 was manually annotated 1 time for cluster M1.

Info for manual annotations of cluster M2:

- Start number 20 was manually annotated 4 times for cluster M2.

Info for manual annotations of cluster Y:

- Start number 18 was manually annotated 2 times for cluster Y.

Gene Information:

Gene: Acquire49_130 Start: 72231, Stop: 72010, Start Num: 18

Candidate Starts for Acquire49_130:

(Start: 18 @72231 has 19 MA's), (31, 72180), (41, 72099), (49, 72024),

Gene: Aleemily_154 Start: 81911, Stop: 82144, Start Num: 19

Candidate Starts for Aleemily_154:

(Start: 19 @81911 has 6 MA's), (48, 82103),

Gene: Anaysia_101 Start: 51081, Stop: 50872, Start Num: 22

Candidate Starts for Anaysia_101:

(Start: 22 @51081 has 18 MA's), (49, 50886),

Gene: Anthony_90 Start: 50703, Stop: 50473, Start Num: 18

Candidate Starts for Anthony_90:

(Start: 18 @50703 has 19 MA's), (32, 50631), (49, 50490),

Gene: Appletree2_131 Start: 72409, Stop: 72188, Start Num: 18

Candidate Starts for Appletree2_131:

(Start: 18 @72409 has 19 MA's), (31, 72358), (41, 72277), (49, 72202),

Gene: AuntGwenStacy_111 Start: 67266, Stop: 67502, Start Num: 18

Candidate Starts for AuntGwenStacy_111:

(Start: 18 @67266 has 19 MA's), (35, 67374), (38, 67401),

Gene: AvadaKedavra_131 Start: 72274, Stop: 72053, Start Num: 18

Candidate Starts for AvadaKedavra_131:
(Start: 18 @72274 has 19 MA's), (31, 72223), (41, 72142), (49, 72067),

Gene: Aziz_172 Start: 81638, Stop: 81417, Start Num: 20
Candidate Starts for Aziz_172:
(Start: 20 @81638 has 4 MA's), (38, 81518),

Gene: Battleship_103 Start: 50973, Stop: 50764, Start Num: 22
Candidate Starts for Battleship_103:
(Start: 22 @50973 has 18 MA's), (35, 50892), (49, 50778),

Gene: BigAnti_40 Start: 40903, Stop: 41112, Start Num: 26
Candidate Starts for BigAnti_40:
(26, 40903), (30, 40930), (37, 41005), (38, 41011), (48, 41080),

Gene: Boohoo_100 Start: 50398, Stop: 50189, Start Num: 22
Candidate Starts for Boohoo_100:
(Start: 22 @50398 has 18 MA's), (49, 50203),

Gene: BrutonGaster_167 Start: 88890, Stop: 88666, Start Num: 25
Candidate Starts for BrutonGaster_167:
(Start: 25 @88890 has 3 MA's), (34, 88818), (45, 88722),

Gene: Cafasso_156 Start: 82337, Stop: 82570, Start Num: 19
Candidate Starts for Cafasso_156:
(Start: 19 @82337 has 6 MA's), (48, 82529),

Gene: Calm_137 Start: 73492, Stop: 73271, Start Num: 18
Candidate Starts for Calm_137:
(Start: 18 @73492 has 19 MA's), (31, 73441), (41, 73360), (42, 73354), (49, 73285),

Gene: Caraxes_97 Start: 50973, Stop: 50749, Start Num: 24
Candidate Starts for Caraxes_97:
(12, 51039), (Start: 24 @50973 has 1 MA's), (32, 50910), (47, 50793), (50, 50760),

Gene: CicholasNage_121 Start: 69588, Stop: 69367, Start Num: 18
Candidate Starts for CicholasNage_121:
(Start: 18 @69588 has 19 MA's), (31, 69537), (41, 69456), (49, 69381),

Gene: DekHockey33_103 Start: 51186, Stop: 50977, Start Num: 22
Candidate Starts for DekHockey33_103:
(Start: 22 @51186 has 18 MA's), (35, 51105), (49, 50991),

Gene: Elle_95 Start: 50181, Stop: 49969, Start Num: 22
Candidate Starts for Elle_95:
(Start: 22 @50181 has 18 MA's), (35, 50100), (49, 49986),

Gene: Estes_172 Start: 81845, Stop: 81621, Start Num: 20
Candidate Starts for Estes_172:
(Start: 20 @81845 has 4 MA's), (38, 81722),

Gene: FatCactus_89 Start: 50312, Stop: 50076, Start Num: 18
Candidate Starts for FatCactus_89:

(13, 50363), (Start: 18 @50312 has 19 MA's), (27, 50288), (35, 50204), (36, 50192), (39, 50174), (44, 50147), (47, 50114),

Gene: GenevaB15_168 Start: 78350, Stop: 78126, Start Num: 20

Candidate Starts for GenevaB15_168:

(Start: 20 @78350 has 4 MA's), (38, 78227), (44, 78197),

Gene: Grayson_4 Start: 1447, Stop: 1229, Start Num: 21

Candidate Starts for Grayson_4:

(14, 1501), (17, 1456), (Start: 21 @1447 has 4 MA's), (28, 1423), (42, 1312), (47, 1267),

Gene: Grayson_287 Start: 130348, Stop: 130130, Start Num: 21

Candidate Starts for Grayson_287:

(14, 130402), (17, 130357), (Start: 21 @130348 has 4 MA's), (28, 130324), (42, 130213), (47, 130168),

Gene: Halena_130 Start: 72429, Stop: 72208, Start Num: 18

Candidate Starts for Halena_130:

(Start: 18 @72429 has 19 MA's), (31, 72378), (41, 72297), (49, 72222),

Gene: JSwag_102 Start: 50605, Stop: 50396, Start Num: 22

Candidate Starts for JSwag_102:

(Start: 22 @50605 has 18 MA's), (49, 50410),

Gene: JoeDirt_132 Start: 73472, Stop: 73251, Start Num: 18

Candidate Starts for JoeDirt_132:

(Start: 18 @73472 has 19 MA's), (31, 73421), (41, 73340), (49, 73265),

Gene: Journey13_77 Start: 46254, Stop: 46024, Start Num: 22

Candidate Starts for Journey13_77:

(15, 46284), (Start: 22 @46254 has 18 MA's), (33, 46185), (43, 46101),

Gene: Jumbo_100 Start: 76675, Stop: 76439, Start Num: 23

Candidate Starts for Jumbo_100:

(1, 77029), (2, 77005), (3, 76996), (9, 76774), (11, 76747), (16, 76693), (Start: 23 @76675 has 1 MA's), (29, 76639), (40, 76537), (45, 76492),

Gene: KatherineG_100 Start: 50906, Stop: 50697, Start Num: 22

Candidate Starts for KatherineG_100:

(Start: 22 @50906 has 18 MA's), (35, 50825), (49, 50711),

Gene: LastResort_99 Start: 50839, Stop: 50630, Start Num: 22

Candidate Starts for LastResort_99:

(Start: 22 @50839 has 18 MA's), (49, 50644),

Gene: LeBron_130 Start: 71994, Stop: 71773, Start Num: 18

Candidate Starts for LeBron_130:

(Start: 18 @71994 has 19 MA's), (31, 71943), (41, 71862), (49, 71787),

Gene: Looper_98 Start: 49688, Stop: 49479, Start Num: 22

Candidate Starts for Looper_98:

(Start: 22 @49688 has 18 MA's), (49, 49493),

Gene: MAckerman_131 Start: 72432, Stop: 72211, Start Num: 18

Candidate Starts for MAckerman_131:
(Start: 18 @72432 has 19 MA's), (31, 72381), (41, 72300), (49, 72225),

Gene: MinecraftSteve_101 Start: 50769, Stop: 50560, Start Num: 22
Candidate Starts for MinecraftSteve_101:
(Start: 22 @50769 has 18 MA's), (35, 50688), (49, 50574),

Gene: ModicumRichard_156 Start: 82598, Stop: 82831, Start Num: 19
Candidate Starts for ModicumRichard_156:
(Start: 19 @82598 has 6 MA's), (48, 82790),

Gene: Morgana_162 Start: 82939, Stop: 83172, Start Num: 19
Candidate Starts for Morgana_162:
(Start: 19 @82939 has 6 MA's), (29, 82981), (48, 83131),

Gene: MrMagoo_176 Start: 82529, Stop: 82305, Start Num: 20
Candidate Starts for MrMagoo_176:
(4, 82733), (5, 82715), (6, 82670), (7, 82664), (8, 82655), (10, 82595), (Start: 20 @82529 has 4 MA's),
(38, 82406),

Gene: Nebulosus_98 Start: 50396, Stop: 50187, Start Num: 22
Candidate Starts for Nebulosus_98:
(Start: 22 @50396 has 18 MA's), (49, 50201),

Gene: ObLaDi_156 Start: 82597, Stop: 82830, Start Num: 19
Candidate Starts for ObLaDi_156:
(Start: 19 @82597 has 6 MA's), (48, 82789),

Gene: OhShagHennessy_123 Start: 71193, Stop: 70972, Start Num: 18
Candidate Starts for OhShagHennessy_123:
(Start: 18 @71193 has 19 MA's), (31, 71142), (41, 71061), (49, 70986),

Gene: Peregrin_4 Start: 1470, Stop: 1252, Start Num: 21
Candidate Starts for Peregrin_4:
(Start: 21 @1470 has 4 MA's), (28, 1446), (38, 1353), (39, 1350), (42, 1335),

Gene: Peregrin_283 Start: 131539, Stop: 131321, Start Num: 21
Candidate Starts for Peregrin_283:
(Start: 21 @131539 has 4 MA's), (28, 131515), (38, 131422), (39, 131419), (42, 131404),

Gene: Poochiewood_123 Start: 70018, Stop: 69797, Start Num: 18
Candidate Starts for Poochiewood_123:
(Start: 18 @70018 has 19 MA's), (31, 69967), (41, 69886), (49, 69811),

Gene: ReMo_99 Start: 50822, Stop: 50613, Start Num: 22
Candidate Starts for ReMo_99:
(Start: 22 @50822 has 18 MA's), (49, 50627),

Gene: Reindeer_158 Start: 80568, Stop: 80347, Start Num: 19
Candidate Starts for Reindeer_158:
(Start: 19 @80568 has 6 MA's), (38, 80451),

Gene: Rosalind_101 Start: 50902, Stop: 50693, Start Num: 22

Candidate Starts for Rosalind_101:

(Start: 22 @50902 has 18 MA's), (35, 50821), (49, 50707),

Gene: Rose5_131 Start: 72502, Stop: 72281, Start Num: 18

Candidate Starts for Rose5_131:

(Start: 18 @72502 has 19 MA's), (31, 72451), (41, 72370), (49, 72295),

Gene: ShayRa_99 Start: 49454, Stop: 49245, Start Num: 22

Candidate Starts for ShayRa_99:

(Start: 22 @49454 has 18 MA's), (35, 49373), (49, 49259),

Gene: Soups_101 Start: 51147, Stop: 50938, Start Num: 22

Candidate Starts for Soups_101:

(Start: 22 @51147 has 18 MA's), (49, 50952),

Gene: Superchunk_96 Start: 50973, Stop: 50749, Start Num: 24

Candidate Starts for Superchunk_96:

(12, 51039), (Start: 24 @50973 has 1 MA's), (32, 50910), (47, 50793), (50, 50760),

Gene: Switzerland_99 Start: 50423, Stop: 50214, Start Num: 22

Candidate Starts for Switzerland_99:

(Start: 22 @50423 has 18 MA's), (35, 50342), (49, 50228),

Gene: Typha_110 Start: 67267, Stop: 67503, Start Num: 18

Candidate Starts for Typha_110:

(Start: 18 @67267 has 19 MA's), (35, 67375), (38, 67402),

Gene: Tyson_132 Start: 72982, Stop: 72761, Start Num: 18

Candidate Starts for Tyson_132:

(Start: 18 @72982 has 19 MA's), (31, 72931), (41, 72850), (49, 72775),

Gene: UPIE_129 Start: 72301, Stop: 72080, Start Num: 18

Candidate Starts for UPIE_129:

(Start: 18 @72301 has 19 MA's), (31, 72250), (41, 72169), (49, 72094),

Gene: Waits_100 Start: 51076, Stop: 50867, Start Num: 22

Candidate Starts for Waits_100:

(Start: 22 @51076 has 18 MA's), (35, 50995), (49, 50881),

Gene: Wamburgrexpress_134 Start: 72959, Stop: 72738, Start Num: 18

Candidate Starts for Wamburgrexpress_134:

(Start: 18 @72959 has 19 MA's), (31, 72908), (41, 72827), (49, 72752),

Gene: Weasels2_289 Start: 133162, Stop: 132950, Start Num: 25

Candidate Starts for Weasels2_289:

(Start: 25 @133162 has 3 MA's), (32, 133102), (36, 133066), (38, 133051), (46, 132991), (47, 132988),

Gene: Weasels2_3 Start: 1457, Stop: 1245, Start Num: 25

Candidate Starts for Weasels2_3:

(Start: 25 @1457 has 3 MA's), (32, 1397), (36, 1361), (38, 1346), (46, 1286), (47, 1283),

Gene: Wyatt2_130 Start: 72608, Stop: 72387, Start Num: 18

Candidate Starts for Wyatt2_130:

(Start: 18 @72608 has 19 MA's), (31, 72557), (41, 72476), (49, 72401),

Gene: Zaria_135 Start: 72957, Stop: 72736, Start Num: 18

Candidate Starts for Zaria_135:

(Start: 18 @72957 has 19 MA's), (31, 72906), (41, 72825), (42, 72819), (49, 72750),