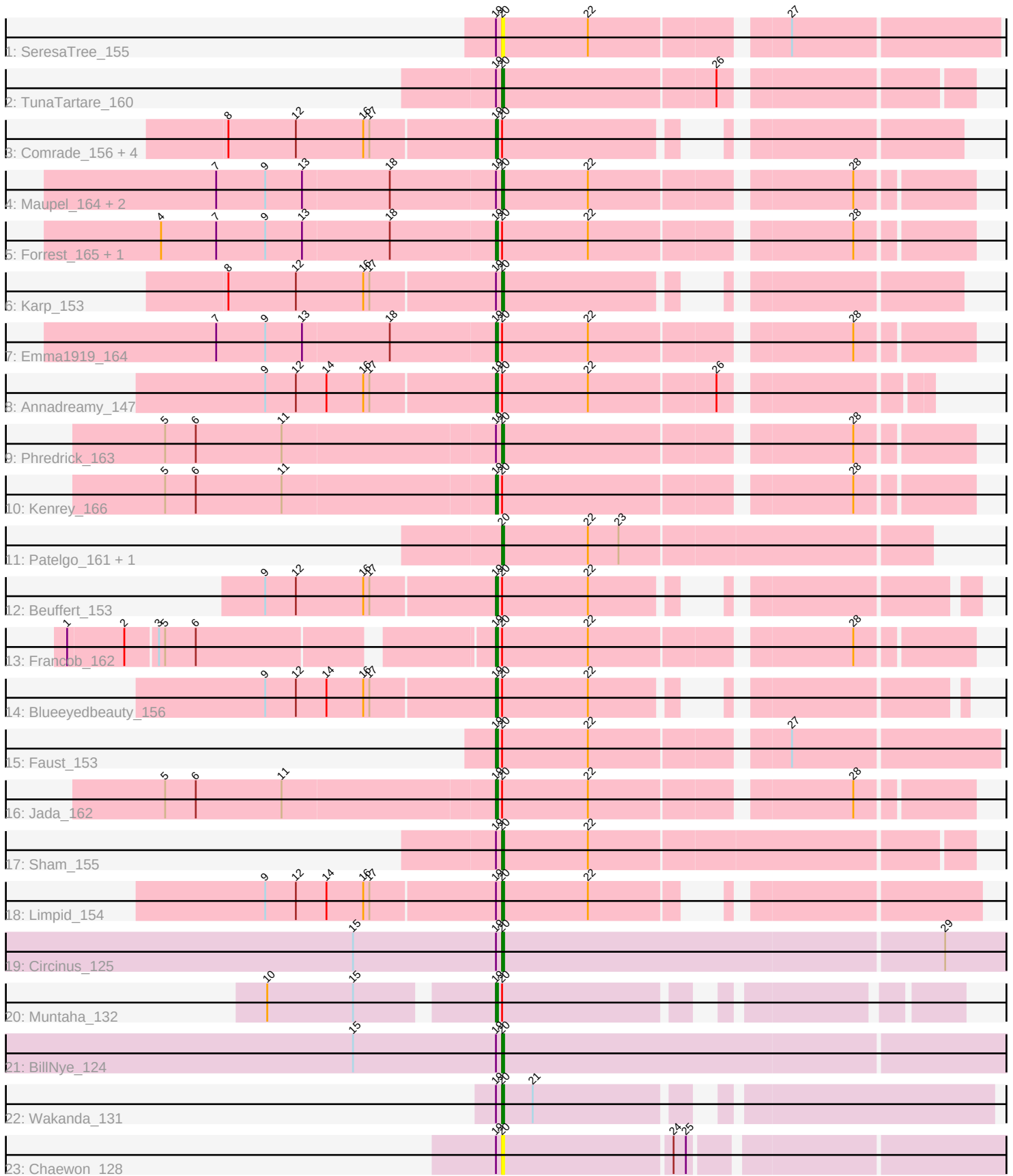


Pham 239077



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 239077 Report

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

Pham number 239077 has 31 members, 4 are drafts.

Phages represented in each track:

- Track 1 : SeresaTree_155
- Track 2 : TunaTartare_160
- Track 3 : Comrade_156, Westy_161, Belfort_159, Stigma_157, SparkleGoddess_158
- Track 4 : Maupel_164, DeluluLabubu_168, Gilson_163
- Track 5 : Forrest_165, MeganTheeKilla_161
- Track 6 : Karp_153
- Track 7 : Emma1919_164
- Track 8 : Annadreamy_147
- Track 9 : Phredrick_163
- Track 10 : Kenrey_166
- Track 11 : Patelgo_161, Moab_159
- Track 12 : Beuffert_153
- Track 13 : Francob_162
- Track 14 : Blueeyedbeauty_156
- Track 15 : Faust_153
- Track 16 : Jada_162
- Track 17 : Sham_155
- Track 18 : Limpid_154
- Track 19 : Circinus_125
- Track 20 : Muntaha_132
- Track 21 : BillNye_124
- Track 22 : Wakanda_131
- Track 23 : Chaewon_128

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

The start number called the most often in the published annotations is 19, it was called in 16 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annadreamy_147, Belfort_159, Beuffert_153, Blueeyedbeauty_156, Comrade_156, Emma1919_164, Faust_153, Forrest_165, Francob_162, Jada_162, Kenrey_166, MeganTheeKilla_161, Muntaha_132, SparkleGoddess_158, Stigma_157, Westy_161,

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

- BillNye_124, Chaewon_128, Circinus_125, DeluluLabubu_168, Gilson_163, Karp_153, Limpid_154, Maupel_164, Phredrick_163, SeresaTree_155, Sham_155, TunaTartare_160, Wakanda_131,

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

- Moab_159, Patelgo_161,

Summary by start number:

Start 19:

- Found in 29 of 31 (93.5%) of genes in pham
- Manual Annotations of this start: 16 of 27
- Called 55.2% of time when present
- Phage (with cluster) where this start called: Annadreamy_147 (BK1), Belfort_159 (BK1), Beuffert_153 (BK1), Blueeyedbeauty_156 (BK1), Comrade_156 (BK1), Emma1919_164 (BK1), Faust_153 (BK1), Forrest_165 (BK1), Francob_162 (BK1), Jada_162 (BK1), Kenrey_166 (BK1), MeganTheeKilla_161 (BK1), Muntaha_132 (BK2), SparkleGoddess_158 (BK1), Stigma_157 (BK1), Westy_161 (BK1),

Start 20:

- Found in 31 of 31 (100.0%) of genes in pham
- Manual Annotations of this start: 11 of 27
- Called 48.4% of time when present
- Phage (with cluster) where this start called: BillNye_124 (BK2), Chaewon_128 (BK2), Circinus_125 (BK2), DeluluLabubu_168 (BK1), Gilson_163 (BK1), Karp_153 (BK1), Limpid_154 (BK1), Maupel_164 (BK1), Moab_159 (BK1), Patelgo_161 (BK1), Phredrick_163 (BK1), SeresaTree_155 (BK1), Sham_155 (BK1), TunaTartare_160 (BK1), Wakanda_131 (BK2),

Summary by clusters:

There are 2 clusters represented in this pham: BK1, BK2,

Info for manual annotations of cluster BK1:

- Start number 19 was manually annotated 15 times for cluster BK1.
- Start number 20 was manually annotated 8 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 19 was manually annotated 1 time for cluster BK2.
- Start number 20 was manually annotated 3 times for cluster BK2.

Gene Information:

Gene: Annadreamy_147 Start: 80785, Stop: 80979, Start Num: 19

Candidate Starts for Annadreamy_147:

(9, 80674), (12, 80689), (14, 80704), (16, 80722), (17, 80725), (Start: 19 @80785 has 16 MA's), (Start: 20 @80788 has 11 MA's), (22, 80830), (26, 80890),

Gene: Belfort_159 Start: 86547, Stop: 86735, Start Num: 19

Candidate Starts for Belfort_159:

(8, 86418), (12, 86451), (16, 86484), (17, 86487), (Start: 19 @86547 has 16 MA's), (Start: 20 @86550 has 11 MA's),

Gene: Beuffert_153 Start: 85321, Stop: 85512, Start Num: 19

Candidate Starts for Beuffert_153:

(9, 85210), (12, 85225), (16, 85258), (17, 85261), (Start: 19 @85321 has 16 MA's), (Start: 20 @85324 has 11 MA's), (22, 85366),

Gene: BillNye_124 Start: 76614, Stop: 76856, Start Num: 20

Candidate Starts for BillNye_124:

(15, 76542), (Start: 19 @76611 has 16 MA's), (Start: 20 @76614 has 11 MA's),

Gene: Blueeyedbeauty_156 Start: 85210, Stop: 85395, Start Num: 19

Candidate Starts for Blueeyedbeauty_156:

(9, 85099), (12, 85114), (14, 85129), (16, 85147), (17, 85150), (Start: 19 @85210 has 16 MA's), (Start: 20 @85213 has 11 MA's), (22, 85255),

Gene: Chaewon_128 Start: 76548, Stop: 76781, Start Num: 20

Candidate Starts for Chaewon_128:

(Start: 19 @76545 has 16 MA's), (Start: 20 @76548 has 11 MA's), (24, 76629), (25, 76635),

Gene: Circinus_125 Start: 76582, Stop: 76824, Start Num: 20

Candidate Starts for Circinus_125:

(15, 76510), (Start: 19 @76579 has 16 MA's), (Start: 20 @76582 has 11 MA's), (29, 76795),

Gene: Comrade_156 Start: 86749, Stop: 86937, Start Num: 19

Candidate Starts for Comrade_156:

(8, 86620), (12, 86653), (16, 86686), (17, 86689), (Start: 19 @86749 has 16 MA's), (Start: 20 @86752 has 11 MA's),

Gene: DeluluLabubu_168 Start: 88043, Stop: 88255, Start Num: 20

Candidate Starts for DeluluLabubu_168:

(7, 87905), (9, 87929), (13, 87947), (18, 87989), (Start: 19 @88040 has 16 MA's), (Start: 20 @88043 has 11 MA's), (22, 88085), (28, 88202),

Gene: Emma1919_164 Start: 86099, Stop: 86314, Start Num: 19

Candidate Starts for Emma1919_164:

(7, 85964), (9, 85988), (13, 86006), (18, 86048), (Start: 19 @86099 has 16 MA's), (Start: 20 @86102 has 11 MA's), (22, 86144), (28, 86261),

Gene: Faust_153 Start: 86119, Stop: 86349, Start Num: 19

Candidate Starts for Faust_153:

(Start: 19 @86119 has 16 MA's), (Start: 20 @86122 has 11 MA's), (22, 86164), (27, 86251),

Gene: Forrest_165 Start: 87082, Stop: 87297, Start Num: 19

Candidate Starts for Forrest_165:

(4, 86920), (7, 86947), (9, 86971), (13, 86989), (18, 87031), (Start: 19 @87082 has 16 MA's), (Start: 20 @87085 has 11 MA's), (22, 87127), (28, 87244),

Gene: Francob_162 Start: 86601, Stop: 86816, Start Num: 19

Candidate Starts for Francob_162:

(1, 86409), (2, 86436), (3, 86451), (5, 86454), (6, 86469), (Start: 19 @86601 has 16 MA's), (Start: 20 @86604 has 11 MA's), (22, 86646), (28, 86763),

Gene: Gilson_163 Start: 86064, Stop: 86276, Start Num: 20

Candidate Starts for Gilson_163:

(7, 85926), (9, 85950), (13, 85968), (18, 86010), (Start: 19 @86061 has 16 MA's), (Start: 20 @86064 has 11 MA's), (22, 86106), (28, 86223),

Gene: Jada_162 Start: 85778, Stop: 85993, Start Num: 19

Candidate Starts for Jada_162:

(5, 85619), (6, 85634), (11, 85676), (Start: 19 @85778 has 16 MA's), (Start: 20 @85781 has 11 MA's), (22, 85823), (28, 85940),

Gene: Karp_153 Start: 85976, Stop: 86161, Start Num: 20

Candidate Starts for Karp_153:

(8, 85844), (12, 85877), (16, 85910), (17, 85913), (Start: 19 @85973 has 16 MA's), (Start: 20 @85976 has 11 MA's),

Gene: Kenrey_166 Start: 87223, Stop: 87438, Start Num: 19

Candidate Starts for Kenrey_166:

(5, 87064), (6, 87079), (11, 87121), (Start: 19 @87223 has 16 MA's), (Start: 20 @87226 has 11 MA's), (28, 87385),

Gene: Limpid_154 Start: 86095, Stop: 86292, Start Num: 20

Candidate Starts for Limpid_154:

(9, 85981), (12, 85996), (14, 86011), (16, 86029), (17, 86032), (Start: 19 @86092 has 16 MA's), (Start: 20 @86095 has 11 MA's), (22, 86137),

Gene: Maupel_164 Start: 86064, Stop: 86276, Start Num: 20

Candidate Starts for Maupel_164:

(7, 85926), (9, 85950), (13, 85968), (18, 86010), (Start: 19 @86061 has 16 MA's), (Start: 20 @86064 has 11 MA's), (22, 86106), (28, 86223),

Gene: MeganTheeKilla_161 Start: 85685, Stop: 85900, Start Num: 19

Candidate Starts for MeganTheeKilla_161:

(4, 85523), (7, 85550), (9, 85574), (13, 85592), (18, 85634), (Start: 19 @85685 has 16 MA's), (Start: 20 @85688 has 11 MA's), (22, 85730), (28, 85847),

Gene: Moab_159 Start: 87742, Stop: 87945, Start Num: 20

Candidate Starts for Moab_159:

(Start: 20 @87742 has 11 MA's), (22, 87784), (23, 87799),

Gene: Muntaha_132 Start: 75574, Stop: 75768, Start Num: 19

Candidate Starts for Muntaha_132:

(10, 75472), (15, 75514), (Start: 19 @75574 has 16 MA's), (Start: 20 @75577 has 11 MA's),

Gene: Patelgo_161 Start: 88434, Stop: 88637, Start Num: 20

Candidate Starts for Patelgo_161:

(Start: 20 @88434 has 11 MA's), (22, 88476), (23, 88491),

Gene: Phredrick_163 Start: 85569, Stop: 85781, Start Num: 20

Candidate Starts for Phredrick_163:

(5, 85407), (6, 85422), (11, 85464), (Start: 19 @85566 has 16 MA's), (Start: 20 @85569 has 11 MA's), (28, 85728),

Gene: SeresaTree_155 Start: 85504, Stop: 85731, Start Num: 20

Candidate Starts for SeresaTree_155:

(Start: 19 @85501 has 16 MA's), (Start: 20 @85504 has 11 MA's), (22, 85546), (27, 85633),

Gene: Sham_155 Start: 87984, Stop: 88205, Start Num: 20

Candidate Starts for Sham_155:

(Start: 19 @87981 has 16 MA's), (Start: 20 @87984 has 11 MA's), (22, 88026),

Gene: SparkleGoddess_158 Start: 86760, Stop: 86948, Start Num: 19

Candidate Starts for SparkleGoddess_158:

(8, 86631), (12, 86664), (16, 86697), (17, 86700), (Start: 19 @86760 has 16 MA's), (Start: 20 @86763 has 11 MA's),

Gene: Stigma_157 Start: 87194, Stop: 87382, Start Num: 19

Candidate Starts for Stigma_157:

(8, 87065), (12, 87098), (16, 87131), (17, 87134), (Start: 19 @87194 has 16 MA's), (Start: 20 @87197 has 11 MA's),

Gene: TunaTartare_160 Start: 89240, Stop: 89452, Start Num: 20

Candidate Starts for TunaTartare_160:

(Start: 19 @89237 has 16 MA's), (Start: 20 @89240 has 11 MA's), (26, 89342),

Gene: Wakanda_131 Start: 75496, Stop: 75711, Start Num: 20

Candidate Starts for Wakanda_131:

(Start: 19 @75493 has 16 MA's), (Start: 20 @75496 has 11 MA's), (21, 75511),

Gene: Westy_161 Start: 87509, Stop: 87697, Start Num: 19

Candidate Starts for Westy_161:

(8, 87380), (12, 87413), (16, 87446), (17, 87449), (Start: 19 @87509 has 16 MA's), (Start: 20 @87512 has 11 MA's),