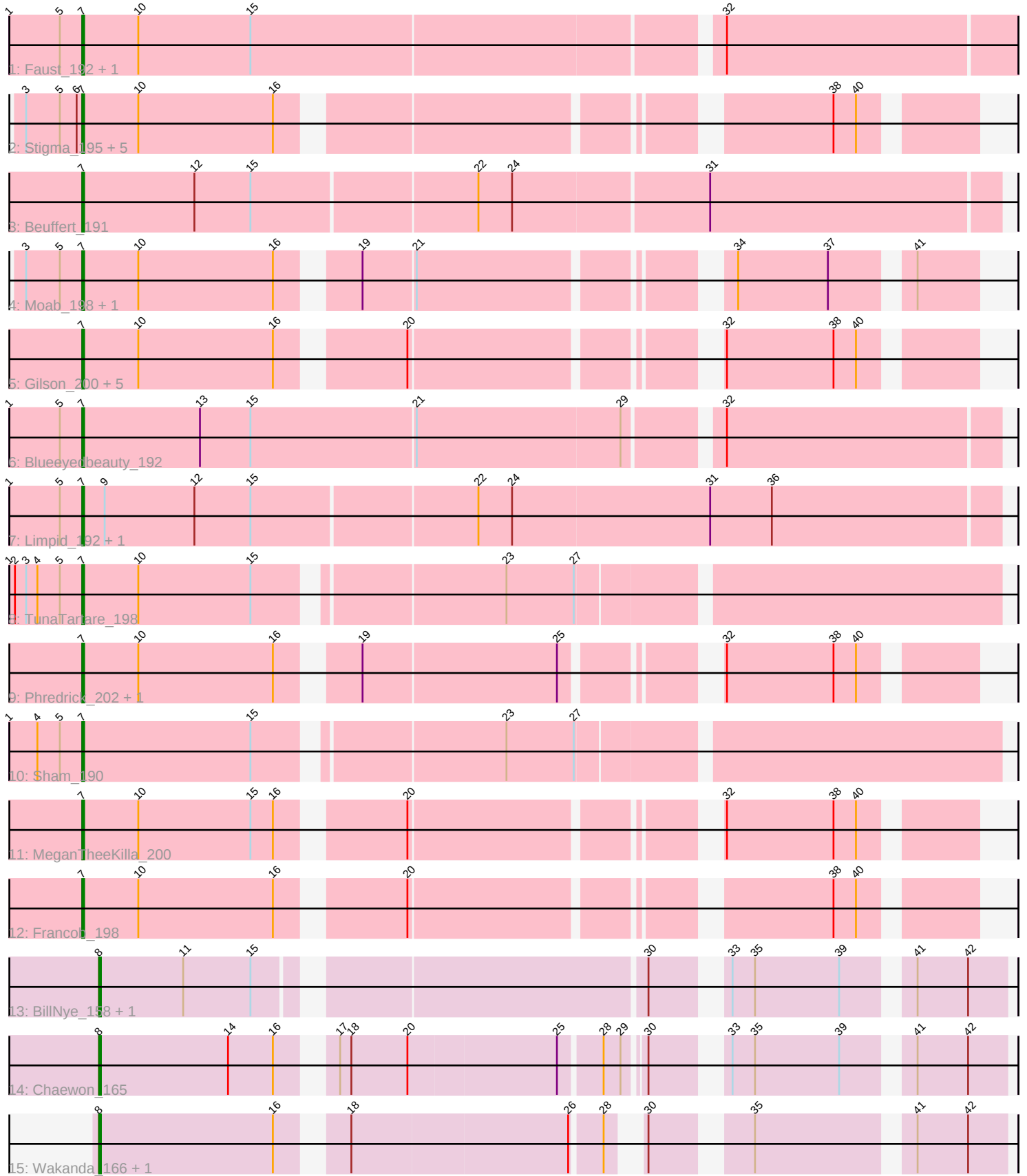


Pham 331102



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 331102 Report

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

Pham number 331102 has 31 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Faust_192, SeresaTree_196
- Track 2 : Stigma_195, Karp_192, Comrade_194, Belfort_197, Westy_199, SparkleGoddess_197
- Track 3 : Beuffert_191
- Track 4 : Moab_198, Patelgo_200
- Track 5 : Gilson_200, Jada_201, Emma1919_201, Forrest_203, Maupel_201, DeluluLabubu_202
- Track 6 : Blueeyedbeauty_192
- Track 7 : Limpid_192, Annadreamy_185
- Track 8 : TunaTartare_198
- Track 9 : Phredrick_202, Kenrey_203
- Track 10 : Sham_190
- Track 11 : MeganTheeKilla_200
- Track 12 : Francob_198
- Track 13 : BillNye_158, Circinus_159
- Track 14 : Chaewon_165
- Track 15 : Wakanda_166, Muntaha_168

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

The start number called the most often in the published annotations is 7, it was called in 24 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annadreamy_185, Belfort_197, Beuffert_191, Blueeyedbeauty_192, Comrade_194, DeluluLabubu_202, Emma1919_201, Faust_192, Forrest_203, Francob_198, Gilson_200, Jada_201, Karp_192, Kenrey_203, Limpid_192, Maupel_201, MeganTheeKilla_200, Moab_198, Patelgo_200, Phredrick_202, SeresaTree_196, Sham_190, SparkleGoddess_197, Stigma_195, TunaTartare_198, Westy_199,

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

-

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

- BillNye_158, Chaewon_165, Circinus_159, Muntaha_168, Wakanda_166,

Summary by start number:

Start 7:

- Found in 26 of 31 (83.9%) of genes in pham
- Manual Annotations of this start: 24 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annadreamy_185 (BK1), Belfort_197 (BK1), Beuffert_191 (BK1), Blueeyedbeauty_192 (BK1), Comrade_194 (BK1), DeluluLabubu_202 (BK1), Emma1919_201 (BK1), Faust_192 (BK1), Forrest_203 (BK1), Francob_198 (BK1), Gilson_200 (BK1), Jada_201 (BK1), Karp_192 (BK1), Kenrey_203 (BK1), Limpid_192 (BK1), Maupel_201 (BK1), MeganTheeKilla_200 (BK1), Moab_198 (BK1), Patelgo_200 (BK1), Phredrick_202 (BK1), SeresaTree_196 (BK1), Sham_190 (BK1), SparkleGoddess_197 (BK1), Stigma_195 (BK1), TunaTartare_198 (BK1), Westy_199 (BK1),

Start 8:

- Found in 5 of 31 (16.1%) of genes in pham
- Manual Annotations of this start: 5 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BillNye_158 (BK2), Chaewon_165 (BK2), Circinus_159 (BK2), Muntaha_168 (BK2), Wakanda_166 (BK2),

Summary by clusters:

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

Info for manual annotations of cluster BK1:

- Start number 7 was manually annotated 24 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 8 was manually annotated 5 times for cluster BK2.

Gene Information:

Gene: Annadreamy_185 Start: 95029, Stop: 95511, Start Num: 7

Candidate Starts for Annadreamy_185:

(1, 94990), (5, 95017), (Start: 7 @95029 has 24 MA's), (9, 95041), (12, 95089), (15, 95119), (22, 95236), (24, 95254), (31, 95359), (36, 95392),

Gene: Belfort_197 Start: 100892, Stop: 101314, Start Num: 7

Candidate Starts for Belfort_197:

(3, 100862), (5, 100880), (6, 100889), (Start: 7 @100892 has 24 MA's), (10, 100922), (16, 100994), (38, 101249), (40, 101261),

Gene: Beuffert_191 Start: 99502, Stop: 99981, Start Num: 7

Candidate Starts for Beuffert_191:

(Start: 7 @99502 has 24 MA's), (12, 99562), (15, 99592), (22, 99709), (24, 99727), (31, 99829),

Gene: BillNye_158 Start: 90364, Stop: 90798, Start Num: 8

Candidate Starts for BillNye_158:

(Start: 8 @90364 has 5 MA's), (11, 90409), (15, 90445), (30, 90634), (33, 90664), (35, 90676), (39, 90721), (41, 90751), (42, 90778),

Gene: Blueeyedbeauty_192 Start: 98484, Stop: 98957, Start Num: 7

Candidate Starts for Blueeyedbeauty_192:

(1, 98445), (5, 98472), (Start: 7 @98484 has 24 MA's), (13, 98547), (15, 98574), (21, 98661), (29, 98769), (32, 98814),

Gene: Chaewon_165 Start: 90448, Stop: 90879, Start Num: 8

Candidate Starts for Chaewon_165:

(Start: 8 @90448 has 5 MA's), (14, 90517), (16, 90541), (17, 90562), (18, 90568), (20, 90598), (25, 90676), (28, 90697), (29, 90706), (30, 90715), (33, 90745), (35, 90757), (39, 90802), (41, 90832), (42, 90859),

Gene: Circinus_159 Start: 90330, Stop: 90764, Start Num: 8

Candidate Starts for Circinus_159:

(Start: 8 @90330 has 5 MA's), (11, 90375), (15, 90411), (30, 90600), (33, 90630), (35, 90642), (39, 90687), (41, 90717), (42, 90744),

Gene: Comrade_194 Start: 101093, Stop: 101515, Start Num: 7

Candidate Starts for Comrade_194:

(3, 101063), (5, 101081), (6, 101090), (Start: 7 @101093 has 24 MA's), (10, 101123), (16, 101195), (38, 101450), (40, 101462),

Gene: DeluluLabubu_202 Start: 101223, Stop: 101645, Start Num: 7

Candidate Starts for DeluluLabubu_202:

(Start: 7 @101223 has 24 MA's), (10, 101253), (16, 101325), (20, 101382), (32, 101523), (38, 101580), (40, 101592),

Gene: Emma1919_201 Start: 99749, Stop: 100171, Start Num: 7

Candidate Starts for Emma1919_201:

(Start: 7 @99749 has 24 MA's), (10, 99779), (16, 99851), (20, 99908), (32, 100049), (38, 100106), (40, 100118),

Gene: Faust_192 Start: 100466, Stop: 100948, Start Num: 7

Candidate Starts for Faust_192:

(1, 100427), (5, 100454), (Start: 7 @100466 has 24 MA's), (10, 100496), (15, 100556), (32, 100796),

Gene: Forrest_203 Start: 101650, Stop: 102072, Start Num: 7

Candidate Starts for Forrest_203:

(Start: 7 @101650 has 24 MA's), (10, 101680), (16, 101752), (20, 101809), (32, 101950), (38, 102007), (40, 102019),

Gene: Francob_198 Start: 99824, Stop: 100246, Start Num: 7

Candidate Starts for Francob_198:

(Start: 7 @99824 has 24 MA's), (10, 99854), (16, 99926), (20, 99983), (38, 100181), (40, 100193),

Gene: Gilson_200 Start: 99711, Stop: 100133, Start Num: 7

Candidate Starts for Gilson_200:

(Start: 7 @99711 has 24 MA's), (10, 99741), (16, 99813), (20, 99870), (32, 100011), (38, 100068), (40, 100080),

Gene: Jada_201 Start: 100522, Stop: 100944, Start Num: 7

Candidate Starts for Jada_201:

(Start: 7 @100522 has 24 MA's), (10, 100552), (16, 100624), (20, 100681), (32, 100822), (38, 100879), (40, 100891),

Gene: Karp_192 Start: 100743, Stop: 101165, Start Num: 7

Candidate Starts for Karp_192:

(3, 100713), (5, 100731), (6, 100740), (Start: 7 @100743 has 24 MA's), (10, 100773), (16, 100845), (38, 101100), (40, 101112),

Gene: Kenrey_203 Start: 100767, Stop: 101189, Start Num: 7

Candidate Starts for Kenrey_203:

(Start: 7 @100767 has 24 MA's), (10, 100797), (16, 100869), (19, 100902), (25, 101004), (32, 101067), (38, 101124), (40, 101136),

Gene: Limpid_192 Start: 100342, Stop: 100824, Start Num: 7

Candidate Starts for Limpid_192:

(1, 100303), (5, 100330), (Start: 7 @100342 has 24 MA's), (9, 100354), (12, 100402), (15, 100432), (22, 100549), (24, 100567), (31, 100672), (36, 100705),

Gene: Maupel_201 Start: 99711, Stop: 100133, Start Num: 7

Candidate Starts for Maupel_201:

(Start: 7 @99711 has 24 MA's), (10, 99741), (16, 99813), (20, 99870), (32, 100011), (38, 100068), (40, 100080),

Gene: MeganTheeKilla_200 Start: 99773, Stop: 100195, Start Num: 7

Candidate Starts for MeganTheeKilla_200:

(Start: 7 @99773 has 24 MA's), (10, 99803), (15, 99863), (16, 99875), (20, 99932), (32, 100073), (38, 100130), (40, 100142),

Gene: Moab_198 Start: 102355, Stop: 102777, Start Num: 7

Candidate Starts for Moab_198:

(3, 102325), (5, 102343), (Start: 7 @102355 has 24 MA's), (10, 102385), (16, 102457), (19, 102490), (21, 102517), (34, 102661), (37, 102709), (41, 102745),

Gene: Muntaha_168 Start: 89624, Stop: 90046, Start Num: 8

Candidate Starts for Muntaha_168:

(Start: 8 @89624 has 5 MA's), (16, 89717), (18, 89744), (26, 89858), (28, 89873), (30, 89882), (35, 89924), (41, 89999), (42, 90026),

Gene: Patelgo_200 Start: 102996, Stop: 103418, Start Num: 7

Candidate Starts for Patelgo_200:

(3, 102966), (5, 102984), (Start: 7 @102996 has 24 MA's), (10, 103026), (16, 103098), (19, 103131), (21, 103158), (34, 103302), (37, 103350), (41, 103386),

Gene: Phredrick_202 Start: 99549, Stop: 99971, Start Num: 7

Candidate Starts for Phredrick_202:

(Start: 7 @99549 has 24 MA's), (10, 99579), (16, 99651), (19, 99684), (25, 99786), (32, 99849), (38, 99906), (40, 99918),

Gene: SeresaTree_196 Start: 100451, Stop: 100933, Start Num: 7

Candidate Starts for SeresaTree_196:

(1, 100412), (5, 100439), (Start: 7 @100451 has 24 MA's), (10, 100481), (15, 100541), (32, 100781),

Gene: Sham_190 Start: 101714, Stop: 102175, Start Num: 7

Candidate Starts for Sham_190:

(1, 101675), (4, 101690), (5, 101702), (Start: 7 @101714 has 24 MA's), (15, 101804), (23, 101924), (27, 101960),

Gene: SparkleGoddess_197 Start: 101301, Stop: 101723, Start Num: 7

Candidate Starts for SparkleGoddess_197:

(3, 101271), (5, 101289), (6, 101298), (Start: 7 @101301 has 24 MA's), (10, 101331), (16, 101403), (38, 101658), (40, 101670),

Gene: Stigma_195 Start: 101539, Stop: 101961, Start Num: 7

Candidate Starts for Stigma_195:

(3, 101509), (5, 101527), (6, 101536), (Start: 7 @101539 has 24 MA's), (10, 101569), (16, 101641), (38, 101896), (40, 101908),

Gene: TunaTartare_198 Start: 103829, Stop: 104290, Start Num: 7

Candidate Starts for TunaTartare_198:

(1, 103790), (2, 103793), (3, 103799), (4, 103805), (5, 103817), (Start: 7 @103829 has 24 MA's), (10, 103859), (15, 103919), (23, 104039), (27, 104075),

Gene: Wakanda_166 Start: 89304, Stop: 89726, Start Num: 8

Candidate Starts for Wakanda_166:

(Start: 8 @89304 has 5 MA's), (16, 89397), (18, 89424), (26, 89538), (28, 89553), (30, 89562), (35, 89604), (41, 89679), (42, 89706),

Gene: Westy_199 Start: 101797, Stop: 102219, Start Num: 7

Candidate Starts for Westy_199:

(3, 101767), (5, 101785), (6, 101794), (Start: 7 @101797 has 24 MA's), (10, 101827), (16, 101899), (38, 102154), (40, 102166),