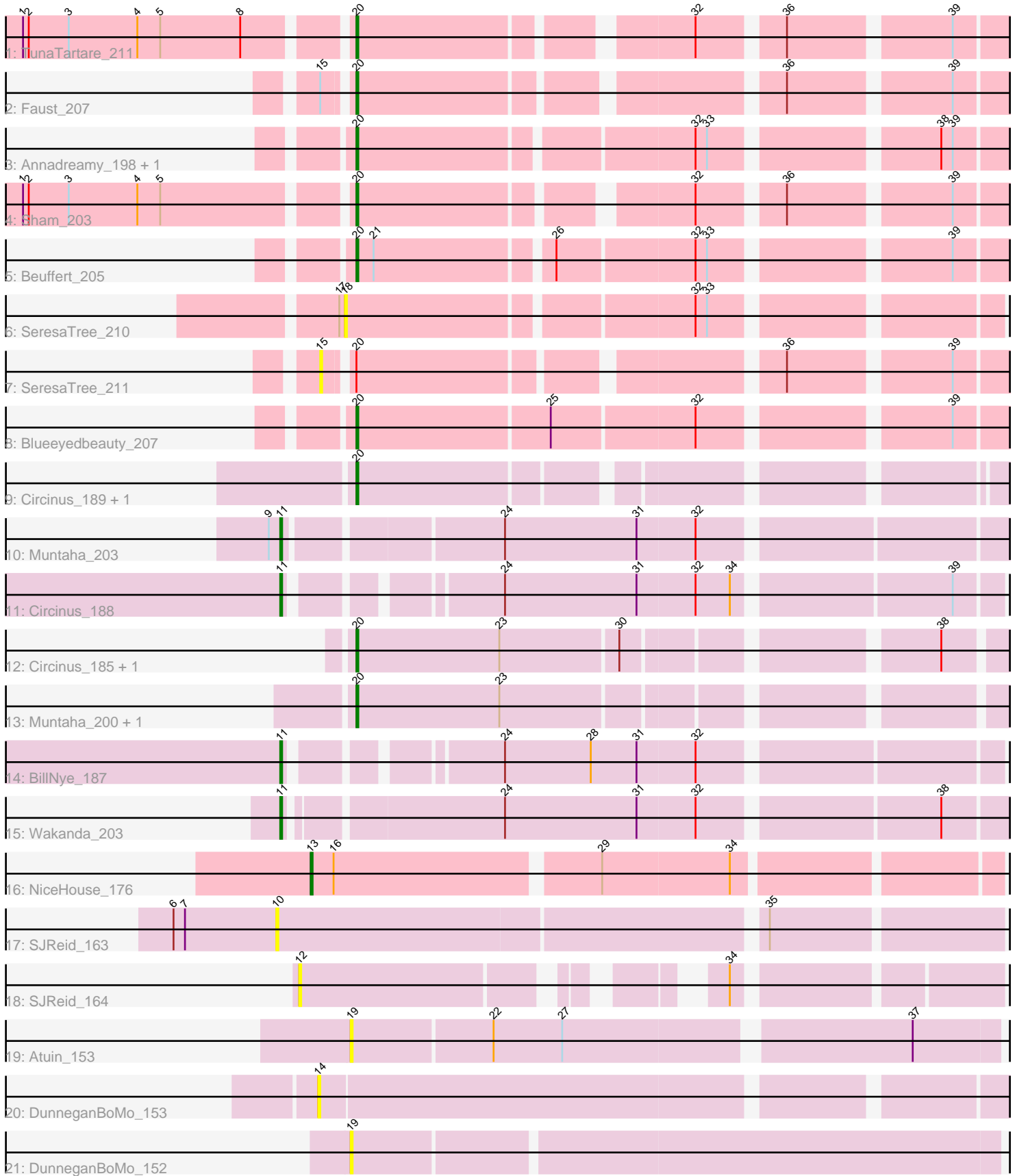# Pham 196773

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 196773 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196773 has 25 members, 7 are drafts.

Phages represented in each track:
• Track 1 : TunaTartare_211
• Track 2 : Faust_207
• Track 3 : Annadreamy_198, Limpid_205
• Track 4 : Sham_203
• Track 5 : Beuffert_205
• Track 6 : SeresaTree_210
• Track 7 : SeresaTree_211
• Track 8 : Blueeyedbeauty_207
• Track 9 : Circinus_189, BillNye_188
• Track 10 : Muntaha_203
• Track 11 : Circinus_188
• Track 12 : Circinus_185, BillNye_184
• Track 13 : Muntaha_200, Wakanda_200
• Track 14 : BillNye_187
• Track 15 : Wakanda_203
• Track 16 : NiceHouse_176
• Track 17 : SJReid_163
• Track 18 : SJReid_164
• Track 19 : Atuin_153
• Track 20 : DunneganBoMo_153
• Track 21 : DunneganBoMo_152

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

The start number called the most often in the published annotations is 20, it was called in 13 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Annadreamy_198, Beuffert_205, BillNye_184, BillNye_188, Blueeyedbeauty_207, Circinus_185, Circinus_189, Faust_207, Limpid_205, Muntaha_200, Sham_203, TunaTartare_211, Wakanda_200,

Genes that have the "Most Annotated" start but do not call it:
• SeresaTree_211,

Genes that do not have the "Most Annotated" start:
• Atuin_153, BillNye_187, Circinus_188, DunneganBoMo_152, DunneganBoMo_153, Muntaha_203, NiceHouse_176, SJReid_163, SJReid_164, SeresaTree_210, Wakanda_203,

Summary by start number:

Start 10:
• Found in 1 of 25 (4.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SJReid_163 (FC),

Start 11:
• Found in 4 of 25 (16.0%) of genes in pham
• Manual Annotations of this start: 4 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BillNye_187 (BK2), Circinus_188 (BK2), Muntaha_203 (BK2), Wakanda_203 (BK2),

Start 12:
• Found in 1 of 25 (4.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SJReid_164 (FC),

Start 13:
• Found in 1 of 25 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NiceHouse_176 (CE),

Start 14:
• Found in 1 of 25 (4.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DunneganBoMo_153 (FC),

Start 15:
• Found in 2 of 25 (8.0%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: SeresaTree_211 (BK1),

Start 18:
• Found in 1 of 25 (4.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SeresaTree_210 (BK1),

Start 19:
• Found in 2 of 25 (8.0%) of genes in pham

• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atuin_153 (FC), DunneganBoMo_152 (FC),

Start 20:
• Found in 14 of 25 (56.0%) of genes in pham
• Manual Annotations of this start: 13 of 18
• Called 92.9% of time when present
• Phage (with cluster) where this start called: Annadreamy_198 (BK1), Beuffert_205 (BK1), BillNye_184 (BK2), BillNye_188 (BK2), Blueeyedbeauty_207 (BK1), Circinus_185 (BK2), Circinus_189 (BK2), Faust_207 (BK1), Limpid_205 (BK1), Muntaha_200 (BK2), Sham_203 (BK1), TunaTartare_211 (BK1), Wakanda_200 (BK2),

Summary by clusters:

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

Info for manual annotations of cluster BK1:
•Start number 20 was manually annotated 7 times for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 11 was manually annotated 4 times for cluster BK2.
•Start number 20 was manually annotated 6 times for cluster BK2.

Info for manual annotations of cluster CE:
•Start number 13 was manually annotated 1 time for cluster CE.

Gene Information:
Gene: Annadreamy_198 Start: 100559, Stop: 100870, Start Num: 20
Candidate Starts for Annadreamy_198:
(Start: 20 @100559 has 13 MA's), (32, 100724), (33, 100730), (38, 100835), (39, 100841),

Gene: Atuin_153 Start: 104321, Stop: 104644, Start Num: 19
Candidate Starts for Atuin_153:
(19, 104321), (22, 104393), (27, 104429), (37, 104600),

Gene: Beuffert_205 Start: 104551, Stop: 104862, Start Num: 20
Candidate Starts for Beuffert_205:
(Start: 20 @104551 has 13 MA's), (21, 104560), (26, 104647), (32, 104716), (33, 104722), (39, 104833),

Gene: BillNye_184 Start: 100624, Stop: 100935, Start Num: 20
Candidate Starts for BillNye_184:
(Start: 20 @100624 has 13 MA's), (23, 100699), (30, 100759), (38, 100903),

Gene: BillNye_187 Start: 101461, Stop: 101799, Start Num: 11
Candidate Starts for BillNye_187:

(Start: 11 @101461 has 4 MA's), (24, 101554), (28, 101599), (31, 101623), (32, 101653),

Gene: BillNye_188 Start: 101849, Stop: 102151, Start Num: 20
Candidate Starts for BillNye_188:
(Start: 20 @101849 has 13 MA's),

Gene: Blueeyedbeauty_207 Start: 104279, Stop: 104596, Start Num: 20
Candidate Starts for Blueeyedbeauty_207:
(Start: 20 @104279 has 13 MA's), (25, 104378), (32, 104450), (39, 104567),

Gene: Circinus_189 Start: 101656, Stop: 101958, Start Num: 20
Candidate Starts for Circinus_189:
(Start: 20 @101656 has 13 MA's),

Gene: Circinus_188 Start: 101268, Stop: 101606, Start Num: 11
Candidate Starts for Circinus_188:
(Start: 11 @101268 has 4 MA's), (24, 101361), (31, 101430), (32, 101460), (34, 101478), (39, 101583),

Gene: Circinus_185 Start: 100431, Stop: 100742, Start Num: 20
Candidate Starts for Circinus_185:
(Start: 20 @100431 has 13 MA's), (23, 100506), (30, 100566), (38, 100710),

Gene: DunneganBoMo_153 Start: 101601, Stop: 101942, Start Num: 14
Candidate Starts for DunneganBoMo_153:
(14, 101601),

Gene: DunneganBoMo_152 Start: 101261, Stop: 101590, Start Num: 19
Candidate Starts for DunneganBoMo_152:
(19, 101261),

Gene: Faust_207 Start: 105783, Stop: 106088, Start Num: 20
Candidate Starts for Faust_207:
(15, 105771), (Start: 20 @105783 has 13 MA's), (36, 105981), (39, 106059),

Gene: Limpid_205 Start: 105872, Stop: 106183, Start Num: 20
Candidate Starts for Limpid_205:
(Start: 20 @105872 has 13 MA's), (32, 106037), (33, 106043), (38, 106148), (39, 106154),

Gene: Muntaha_203 Start: 101500, Stop: 101853, Start Num: 11
Candidate Starts for Muntaha_203:
(9, 101494), (Start: 11 @101500 has 4 MA's), (24, 101605), (31, 101674), (32, 101704),

Gene: Muntaha_200 Start: 100611, Stop: 100922, Start Num: 20
Candidate Starts for Muntaha_200:
(Start: 20 @100611 has 13 MA's), (23, 100686),

Gene: NiceHouse_176 Start: 100180, Stop: 100518, Start Num: 13
Candidate Starts for NiceHouse_176:
(Start: 13 @100180 has 1 MA's), (16, 100192), (29, 100324), (34, 100390),

Gene: SJReid_163 Start: 96607, Stop: 96969, Start Num: 10
Candidate Starts for SJReid_163:

(6, 96553), (7, 96559), (10, 96607), (35, 96853),

Gene: SJReid_164 Start: 96973, Stop: 97275, Start Num: 12
Candidate Starts for SJReid_164:
(12, 96973), (34, 97150),

Gene: SeresaTree_210 Start: 105448, Stop: 105759, Start Num: 18
Candidate Starts for SeresaTree_210:
(17, 105445), (18, 105448), (32, 105619), (33, 105625),

Gene: SeresaTree_211 Start: 105756, Stop: 106073, Start Num: 15
Candidate Starts for SeresaTree_211:
(15, 105756), (Start: 20 @105768 has 13 MA's), (36, 105966), (39, 106044),

Gene: Sham_203 Start: 106846, Stop: 107148, Start Num: 20
Candidate Starts for Sham_203:
(1, 106684), (2, 106687), (3, 106708), (4, 106744), (5, 106756), (Start: 20 @106846 has 13 MA's), (32, 107002), (36, 107041), (39, 107119),

Gene: TunaTartare_211 Start: 109144, Stop: 109446, Start Num: 20
Candidate Starts for TunaTartare_211:
(1, 108982), (2, 108985), (3, 109006), (4, 109042), (5, 109054), (8, 109096), (Start: 20 @109144 has 13 MA's), (32, 109300), (36, 109339), (39, 109417),

Gene: Wakanda_203 Start: 101737, Stop: 102090, Start Num: 11
Candidate Starts for Wakanda_203:
(Start: 11 @101737 has 4 MA's), (24, 101842), (31, 101911), (32, 101941), (38, 102058),

Gene: Wakanda_200 Start: 100892, Stop: 101203, Start Num: 20
Candidate Starts for Wakanda_200:
(Start: 20 @100892 has 13 MA's), (23, 100967),