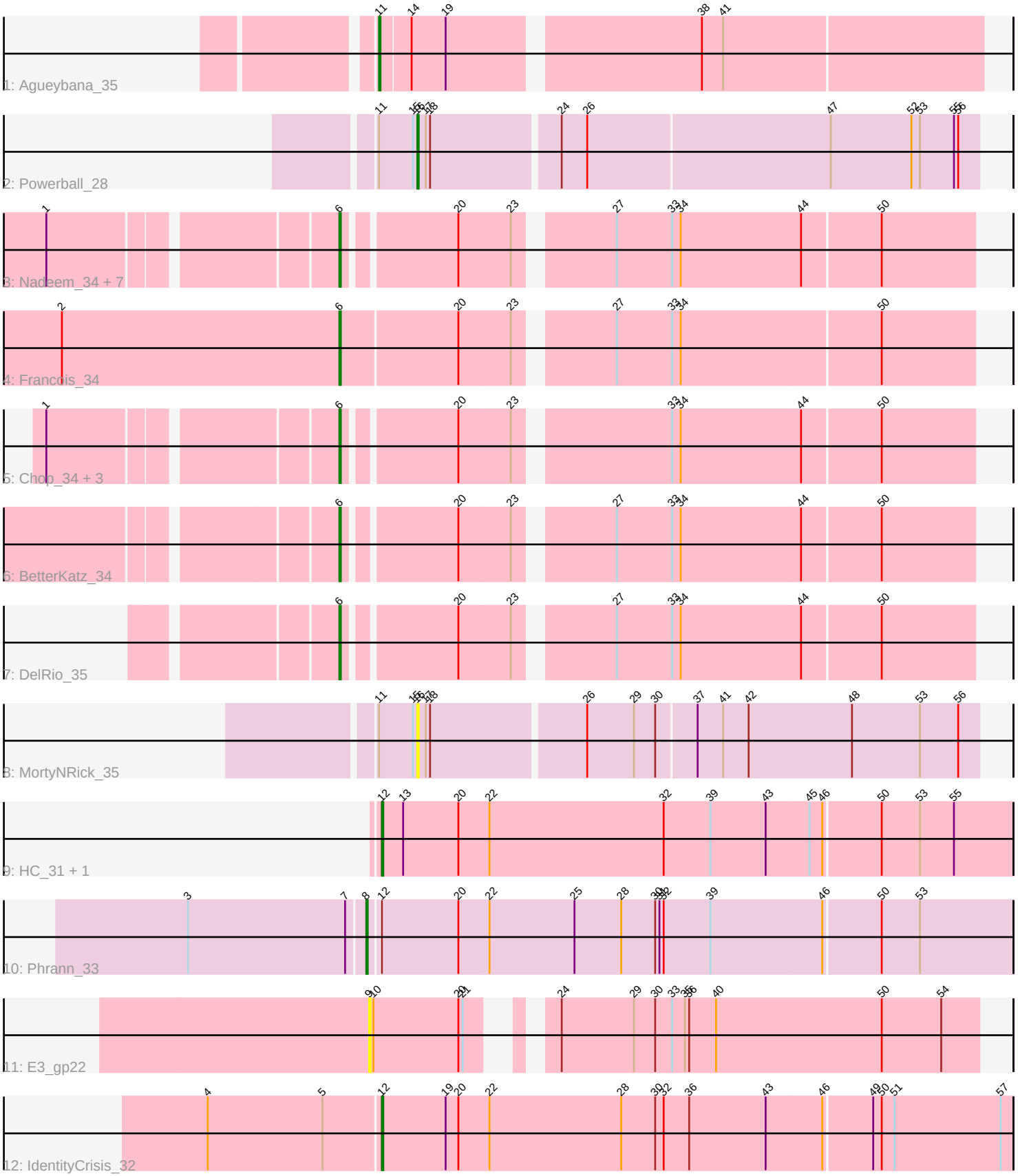
Pham 216530


1: Agueybana_35
2: Powerball_28
3: Nadeem_34 + 7
4: Francois_34
5: Chop_34 + 3
6: BetterKatz_34
7: DelRio_35
8: MortyNRick_35
9: HC_31 + 1
10: Phrann_33
11: E3_gp22
12: IdentityCrisis_32

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 216530 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216530 has 23 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Agueybana_35
• Track 2 : Powerball_28
• Track 3 : Nadeem_34, Bock_34, Brylie_34, Parada_34, Pimento_34, Mulch_34, NancyRae_34, WheatThin_34
• Track 4 : Francois_34
• Track 5 : Chop_34, Hamood_34, Ayotoya_34, GrandSlam_34
• Track 6 : BetterKatz_34
• Track 7 : DelRio_35
• Track 8 : MortyNRick_35
• Track 9 : HC_31, Babsiella_30
• Track 10 : Phrann_33
• Track 11 : E3_gp22
• Track 12 : IdentityCrisis_32

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

The start number called the most often in the published annotations is 6, it was called in 15 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ayotoya_34, BetterKatz_34, Bock_34, Brylie_34, Chop_34, DelRio_35, Francois_34, GrandSlam_34, Hamood_34, Mulch_34, Nadeem_34, NancyRae_34, Parada_34, Pimento_34, WheatThin_34,

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

Genes that do not have the "Most Annotated" start:
• Agueybana_35, Babsiella_30, E3_gp22, HC_31, IdentityCrisis_32, MortyNRick_35, Phrann_33, Powerball_28,

Summary by start number:

Start 6:

• Found in 15 of 23 (65.2%) of genes in pham
• Manual Annotations of this start: 15 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ayotoya_34 (DI), BetterKatz_34 (DI), Bock_34 (DI), Brylie_34 (DI), Chop_34 (DI), DelRio_35 (DI), Francois_34 (DI), GrandSlam_34 (DI), Hamood_34 (DI), Mulch_34 (DI), Nadeem_34 (DI), NancyRae_34 (DI), Parada_34 (DI), Pimento_34 (DI), WheatThin_34 (DI),

Start 8:
• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phrann_33 (N),

Start 9:
• Found in 1 of 23 (4.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: E3_gp22 (singleton),

Start 11:
• Found in 3 of 23 (13.0%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Agueybana_35 (CZ1),

Start 12:
• Found in 4 of 23 (17.4%) of genes in pham
• Manual Annotations of this start: 3 of 21
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Babsiella_30 (I1), HC_31 (I1), IdentityCrisis_32 (singleton),

Start 16:
• Found in 2 of 23 (8.7%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MortyNRick_35 (DN), Powerball_28 (CZ4),

Summary by clusters:

There are 7 clusters represented in this pham: DN, singleton, DI, I1, CZ1, CZ4, N,

Info for manual annotations of cluster CZ1:
•Start number 11 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ4:
•Start number 16 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster DI:
•Start number 6 was manually annotated 15 times for cluster DI.

Info for manual annotations of cluster I1:
•Start number 12 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster N:
•Start number 8 was manually annotated 1 time for cluster N.

Gene Information:

Gene: Agueybana_35 Start: 29277, Stop: 28873, Start Num: 11
Candidate Starts for Agueybana_35:
(Start: 11 @29277 has 1 MA's), (14, 29256), (19, 29232), (38, 29067), (41, 29052),

Gene: Ayotoya_34 Start: 28865, Stop: 28449, Start Num: 6
Candidate Starts for Ayotoya_34:
(1, 29051), (Start: 6 @28865 has 15 MA's), (20, 28793), (23, 28757), (33, 28658), (34, 28652), (44, 28568), (50, 28514),

Gene: Babsiella_30 Start: 26423, Stop: 25983, Start Num: 12
Candidate Starts for Babsiella_30:
(Start: 12 @26423 has 3 MA's), (13, 26408), (20, 26369), (22, 26348), (32, 26225), (39, 26192), (43, 26153), (45, 26123), (46, 26114), (50, 26075), (53, 26048), (55, 26024),

Gene: BetterKatz_34 Start: 28336, Stop: 27920, Start Num: 6
Candidate Starts for BetterKatz_34:
(Start: 6 @28336 has 15 MA's), (20, 28264), (23, 28228), (27, 28168), (33, 28129), (34, 28123), (44, 28039), (50, 27985),

Gene: Bock_34 Start: 28086, Stop: 27670, Start Num: 6
Candidate Starts for Bock_34:
(1, 28272), (Start: 6 @28086 has 15 MA's), (20, 28014), (23, 27978), (27, 27918), (33, 27879), (34, 27873), (44, 27789), (50, 27735),

Gene: Brylie_34 Start: 28074, Stop: 27658, Start Num: 6
Candidate Starts for Brylie_34:
(1, 28260), (Start: 6 @28074 has 15 MA's), (20, 28002), (23, 27966), (27, 27906), (33, 27867), (34, 27861), (44, 27777), (50, 27723),

Gene: Chop_34 Start: 28613, Stop: 28197, Start Num: 6
Candidate Starts for Chop_34:
(1, 28799), (Start: 6 @28613 has 15 MA's), (20, 28541), (23, 28505), (33, 28406), (34, 28400), (44, 28316), (50, 28262),

Gene: DelRio_35 Start: 29263, Stop: 28847, Start Num: 6
Candidate Starts for DelRio_35:
(Start: 6 @29263 has 15 MA's), (20, 29191), (23, 29155), (27, 29095), (33, 29056), (34, 29050), (44, 28966), (50, 28912),

Gene: E3_gp22 Start: 9420, Stop: 9812, Start Num: 9
Candidate Starts for E3_gp22:

(9, 9420), (10, 9423), (20, 9483), (21, 9486), (24, 9519), (29, 9570), (30, 9585), (33, 9597), (35, 9606), (36, 9609), (40, 9627), (50, 9744), (54, 9786),

Gene: Francois_34 Start: 28109, Stop: 27684, Start Num: 6
Candidate Starts for Francois_34:
(2, 28304), (Start: 6 @28109 has 15 MA's), (20, 28028), (23, 27992), (27, 27932), (33, 27893), (34, 27887), (50, 27749),

Gene: GrandSlam_34 Start: 28613, Stop: 28197, Start Num: 6
Candidate Starts for GrandSlam_34:
(1, 28799), (Start: 6 @28613 has 15 MA's), (20, 28541), (23, 28505), (33, 28406), (34, 28400), (44, 28316), (50, 28262),

Gene: HC_31 Start: 26479, Stop: 26039, Start Num: 12
Candidate Starts for HC_31:
(Start: 12 @26479 has 3 MA's), (13, 26464), (20, 26425), (22, 26404), (32, 26281), (39, 26248), (43, 26209), (45, 26179), (46, 26170), (50, 26131), (53, 26104), (55, 26080),

Gene: Hamood_34 Start: 28613, Stop: 28197, Start Num: 6
Candidate Starts for Hamood_34:
(1, 28799), (Start: 6 @28613 has 15 MA's), (20, 28541), (23, 28505), (33, 28406), (34, 28400), (44, 28316), (50, 28262),

Gene: IdentityCrisis_32 Start: 25735, Stop: 25295, Start Num: 12
Candidate Starts for IdentityCrisis_32:
(4, 25855), (5, 25774), (Start: 12 @25735 has 3 MA's), (19, 25690), (20, 25681), (22, 25660), (28, 25567), (30, 25543), (32, 25537), (36, 25519), (43, 25465), (46, 25426), (49, 25393), (50, 25387), (51, 25378), (57, 25303),

Gene: MortyNRick_35 Start: 28923, Stop: 28537, Start Num: 16
Candidate Starts for MortyNRick_35:
(Start: 11 @28950 has 1 MA's), (15, 28926), (Start: 16 @28923 has 1 MA's), (17, 28917), (18, 28914), (26, 28809), (29, 28776), (30, 28761), (37, 28734), (41, 28716), (42, 28698), (48, 28626), (53, 28578), (56, 28551),

Gene: Mulch_34 Start: 28074, Stop: 27658, Start Num: 6
Candidate Starts for Mulch_34:
(1, 28260), (Start: 6 @28074 has 15 MA's), (20, 28002), (23, 27966), (27, 27906), (33, 27867), (34, 27861), (44, 27777), (50, 27723),

Gene: Nadeem_34 Start: 28074, Stop: 27658, Start Num: 6
Candidate Starts for Nadeem_34:
(1, 28260), (Start: 6 @28074 has 15 MA's), (20, 28002), (23, 27966), (27, 27906), (33, 27867), (34, 27861), (44, 27777), (50, 27723),

Gene: NancyRae_34 Start: 28084, Stop: 27668, Start Num: 6
Candidate Starts for NancyRae_34:
(1, 28270), (Start: 6 @28084 has 15 MA's), (20, 28012), (23, 27976), (27, 27916), (33, 27877), (34, 27871), (44, 27787), (50, 27733),

Gene: Parada_34 Start: 28074, Stop: 27658, Start Num: 6
Candidate Starts for Parada_34:

(1, 28260), (Start: 6 @28074 has 15 MA's), (20, 28002), (23, 27966), (27, 27906), (33, 27867), (34, 27861), (44, 27777), (50, 27723),

Gene: Phrann_33 Start: 27801, Stop: 27355, Start Num: 8
Candidate Starts for Phrann_33:
(3, 27924), (7, 27813), (Start: 8 @27801 has 1 MA's), (Start: 12 @27795 has 3 MA's), (20, 27741), (22, 27720), (25, 27660), (28, 27627), (30, 27603), (31, 27600), (32, 27597), (39, 27564), (46, 27486), (50, 27447), (53, 27420),

Gene: Pimento_34 Start: 27733, Stop: 27317, Start Num: 6
Candidate Starts for Pimento_34:
(1, 27919), (Start: 6 @27733 has 15 MA's), (20, 27661), (23, 27625), (27, 27565), (33, 27526), (34, 27520), (44, 27436), (50, 27382),

Gene: Powerball_28 Start: 25728, Stop: 25342, Start Num: 16
Candidate Starts for Powerball_28:
(Start: 11 @25755 has 1 MA's), (15, 25731), (Start: 16 @25728 has 1 MA's), (17, 25722), (18, 25719), (24, 25632), (26, 25614), (47, 25446), (52, 25389), (53, 25383), (55, 25359), (56, 25356),

Gene: WheatThin_34 Start: 28074, Stop: 27658, Start Num: 6
Candidate Starts for WheatThin_34:
(1, 28260), (Start: 6 @28074 has 15 MA's), (20, 28002), (23, 27966), (27, 27906), (33, 27867), (34, 27861), (44, 27777), (50, 27723),