Pham 347907


1: Aaronocolus_22 + 10
2: Caliburn_22
3: Esperer_22
4: Legacy_22
5: Speedwell_27
6: BroPlease_23 + 1
7: phiHau3_24
8: Celia_23 + 2
9: VieEnRose_23
10: Dennebes_40 + 1
11: FlowerPower_39 + 5

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 347907 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347907 has 30 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Aaronocolus_22, Phettuccine_22, Indigo_22, Hydra_24, Bovely_22, BeardedLady_23, Nerdos_22, Unstoppable_22, SunsetPointe_22, Leviticus_22, Ozzie_22
• Track 2 : Caliburn_22
• Track 3 : Esperer_22
• Track 4 : Legacy_22
• Track 5 : Speedwell_27
• Track 6 : BroPlease_23, GreenWeasel_24
• Track 7 : phiHau3_24
• Track 8 : Celia_23, Itza_23, Urza_23
• Track 9 : VieEnRose_23
• Track 10 : Dennebes_40, Rideau_41
• Track 11 : FlowerPower_39, Fabian_36, RetrieverFever_39, Gremlin23_39, Vrykolakas_39, Geostin_34

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

The start number called the most often in the published annotations is 2, it was called in 13 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aaronocolus_22, BeardedLady_23, Bovely_22, Caliburn_22, Hydra_24, Indigo_22, Leviticus_22, Nerdos_22, Ozzie_22, Phettuccine_22, Speedwell_27, SunsetPointe_22, Unstoppable_22,

Genes that have the "Most Annotated" start but do not call it:
• Legacy_22,

Genes that do not have the "Most Annotated" start:
• BroPlease_23, Celia_23, Dennebes_40, Esperer_22, Fabian_36, FlowerPower_39, Geostin_34, GreenWeasel_24, Gremlin23_39, Itza_23, RetrieverFever_39, Rideau_41, Urza_23, VieEnRose_23, Vrykolakas_39, phiHau3_24,

Summary by start number:

Start 1:
• Found in 3 of 30 (10.0%) of genes in pham
• Manual Annotations of this start: 3 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BroPlease_23 (BD4), GreenWeasel_24 (BD4), phiHau3_24 (BD4),

Start 2:
• Found in 14 of 30 (46.7%) of genes in pham
• Manual Annotations of this start: 13 of 29
• Called 92.9% of time when present
• Phage (with cluster) where this start called: Aaronocolus_22 (BD1), BeardedLady_23 (BD1), Bovely_22 (BD1), Caliburn_22 (BD1), Hydra_24 (BD1), Indigo_22 (BD1), Leviticus_22 (BD1), Nerdos_22 (BD1), Ozzie_22 (BD1), Phettuccine_22 (BD1), Speedwell_27 (BD3), SunsetPointe_22 (BD1), Unstoppable_22 (BD1),

Start 6:
• Found in 8 of 30 (26.7%) of genes in pham
• Manual Annotations of this start: 7 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dennebes_40 (BF), Fabian_36 (BF), FlowerPower_39 (BF), Geostin_34 (BF), Gremlin23_39 (BF), RetrieverFever_39 (BF), Rideau_41 (BF), Vrykolakas_39 (BF),

Start 7:
• Found in 21 of 30 (70.0%) of genes in pham
• Manual Annotations of this start: 6 of 29
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Celia_23 (BD6), Esperer_22 (BD1), Itza_23 (BD6), Legacy_22 (BD1), Urza_23 (BD6), VieEnRose_23 (BD6),

Summary by clusters:

There are 5 clusters represented in this pham: BD4, BF, BD6, BD1, BD3,

Info for manual annotations of cluster BD1:
•Start number 2 was manually annotated 12 times for cluster BD1.
•Start number 7 was manually annotated 2 times for cluster BD1.

Info for manual annotations of cluster BD3:
•Start number 2 was manually annotated 1 time for cluster BD3.

Info for manual annotations of cluster BD4:
•Start number 1 was manually annotated 3 times for cluster BD4.

Info for manual annotations of cluster BD6:
•Start number 7 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster BF:
•Start number 6 was manually annotated 7 times for cluster BF.

Gene Information:

Gene: Aaronocolus_22 Start: 17380, Stop: 18720, Start Num: 2
Candidate Starts for Aaronocolus_22:
(Start: 2 @17380 has 13 MA's), (3, 17392), (4, 17419), (Start: 7 @17665 has 6 MA's), (17, 17797), (24, 17929), (43, 18259), (57, 18550),

Gene: BeardedLady_23 Start: 17627, Stop: 18967, Start Num: 2
Candidate Starts for BeardedLady_23:
(Start: 2 @17627 has 13 MA's), (3, 17639), (4, 17666), (Start: 7 @17912 has 6 MA's), (17, 18044), (24, 18176), (43, 18506), (57, 18797),

Gene: Bovely_22 Start: 17386, Stop: 18726, Start Num: 2
Candidate Starts for Bovely_22:
(Start: 2 @17386 has 13 MA's), (3, 17398), (4, 17425), (Start: 7 @17671 has 6 MA's), (17, 17803), (24, 17935), (43, 18265), (57, 18556),

Gene: BroPlease_23 Start: 18052, Stop: 19299, Start Num: 1
Candidate Starts for BroPlease_23:
(Start: 1 @18052 has 3 MA's), (Start: 7 @18337 has 6 MA's), (10, 18361), (14, 18418), (15, 18427), (16, 18430), (20, 18472), (25, 18547), (35, 18688), (40, 18820), (46, 18895), (48, 18964), (51, 19066), (55, 19093), (57, 19138), (62, 19249),

Gene: Caliburn_22 Start: 17360, Stop: 18700, Start Num: 2
Candidate Starts for Caliburn_22:
(Start: 2 @17360 has 13 MA's), (3, 17372), (4, 17399), (Start: 7 @17645 has 6 MA's), (17, 17777), (19, 17813), (23, 17894), (24, 17909), (43, 18239), (57, 18530),

Gene: Celia_23 Start: 18138, Stop: 19250, Start Num: 7
Candidate Starts for Celia_23:
(Start: 7 @18138 has 6 MA's), (8, 18150), (29, 18501), (33, 18534), (37, 18636), (39, 18660), (41, 18744), (50, 18990), (54, 19020), (56, 19053), (58, 19086), (60, 19149), (63, 19209), (64, 19236),

Gene: Dennebes_40 Start: 20560, Stop: 21591, Start Num: 6
Candidate Starts for Dennebes_40:
(Start: 6 @20560 has 7 MA's), (11, 20695), (12, 20716), (14, 20734), (26, 20884), (30, 20941), (34, 20986), (36, 21025), (38, 21067), (42, 21157), (46, 21211), (49, 21307), (52, 21364),

Gene: Esperer_22 Start: 17484, Stop: 18539, Start Num: 7
Candidate Starts for Esperer_22:
(Start: 7 @17484 has 6 MA's), (17, 17616), (24, 17748), (43, 18078), (57, 18369),

Gene: Fabian_36 Start: 20410, Stop: 21441, Start Num: 6
Candidate Starts for Fabian_36:
(Start: 6 @20410 has 7 MA's), (14, 20584), (26, 20734), (30, 20791), (31, 20809), (34, 20836), (36, 20875), (42, 21007), (47, 21070), (49, 21157), (52, 21214), (61, 21346),

Gene: FlowerPower_39 Start: 20410, Stop: 21441, Start Num: 6
Candidate Starts for FlowerPower_39:
(Start: 6 @20410 has 7 MA's), (14, 20584), (26, 20734), (30, 20791), (31, 20809), (34, 20836), (36, 20875), (42, 21007), (47, 21070), (49, 21157), (52, 21214), (61, 21346),

Gene: Geostin_34 Start: 20410, Stop: 21441, Start Num: 6
Candidate Starts for Geostin_34:
(Start: 6 @20410 has 7 MA's), (14, 20584), (26, 20734), (30, 20791), (31, 20809), (34, 20836), (36, 20875), (42, 21007), (47, 21070), (49, 21157), (52, 21214), (61, 21346),

Gene: GreenWeasel_24 Start: 18061, Stop: 19308, Start Num: 1
Candidate Starts for GreenWeasel_24:
(Start: 1 @18061 has 3 MA's), (Start: 7 @18346 has 6 MA's), (10, 18370), (14, 18427), (15, 18436), (16, 18439), (20, 18481), (25, 18556), (35, 18697), (40, 18829), (46, 18904), (48, 18973), (51, 19075), (55, 19102), (57, 19147), (62, 19258),

Gene: Gremlin23_39 Start: 20410, Stop: 21441, Start Num: 6
Candidate Starts for Gremlin23_39:
(Start: 6 @20410 has 7 MA's), (14, 20584), (26, 20734), (30, 20791), (31, 20809), (34, 20836), (36, 20875), (42, 21007), (47, 21070), (49, 21157), (52, 21214), (61, 21346),

Gene: Hydra_24 Start: 17908, Stop: 19248, Start Num: 2
Candidate Starts for Hydra_24:
(Start: 2 @17908 has 13 MA's), (3, 17920), (4, 17947), (Start: 7 @18193 has 6 MA's), (17, 18325), (24, 18457), (43, 18787), (57, 19078),

Gene: Indigo_22 Start: 17380, Stop: 18720, Start Num: 2
Candidate Starts for Indigo_22:
(Start: 2 @17380 has 13 MA's), (3, 17392), (4, 17419), (Start: 7 @17665 has 6 MA's), (17, 17797), (24, 17929), (43, 18259), (57, 18550),

Gene: Itza_23 Start: 18061, Stop: 19164, Start Num: 7
Candidate Starts for Itza_23:
(Start: 7 @18061 has 6 MA's), (8, 18073), (29, 18415), (33, 18448), (37, 18550), (39, 18574), (41, 18658), (50, 18904), (54, 18934), (56, 18967), (58, 19000), (60, 19063), (63, 19123), (64, 19150),

Gene: Legacy_22 Start: 17636, Stop: 18691, Start Num: 7
Candidate Starts for Legacy_22:
(Start: 2 @17351 has 13 MA's), (3, 17363), (4, 17390), (Start: 7 @17636 has 6 MA's), (17, 17768), (24, 17900), (43, 18230), (57, 18521),

Gene: Leviticus_22 Start: 17380, Stop: 18720, Start Num: 2
Candidate Starts for Leviticus_22:
(Start: 2 @17380 has 13 MA's), (3, 17392), (4, 17419), (Start: 7 @17665 has 6 MA's), (17, 17797), (24, 17929), (43, 18259), (57, 18550),

Gene: Nerdos_22 Start: 17380, Stop: 18720, Start Num: 2
Candidate Starts for Nerdos_22:
(Start: 2 @17380 has 13 MA's), (3, 17392), (4, 17419), (Start: 7 @17665 has 6 MA's), (17, 17797), (24, 17929), (43, 18259), (57, 18550),

Gene: Ozzie_22 Start: 17360, Stop: 18700, Start Num: 2
Candidate Starts for Ozzie_22:
(Start: 2 @17360 has 13 MA's), (3, 17372), (4, 17399), (Start: 7 @17645 has 6 MA's), (17, 17777), (24, 17909), (43, 18239), (57, 18530),

Gene: Phettuccine_22 Start: 17380, Stop: 18720, Start Num: 2

Candidate Starts for Phettuccine_22:
(Start: 2 @17380 has 13 MA's), (3, 17392), (4, 17419), (Start: 7 @17665 has 6 MA's), (17, 17797), (24, 17929), (43, 18259), (57, 18550),

Gene: RetrieverFever_39 Start: 20410, Stop: 21441, Start Num: 6
Candidate Starts for RetrieverFever_39:
(Start: 6 @20410 has 7 MA's), (14, 20584), (26, 20734), (30, 20791), (31, 20809), (34, 20836), (36, 20875), (42, 21007), (47, 21070), (49, 21157), (52, 21214), (61, 21346),

Gene: Rideau_41 Start: 20560, Stop: 21591, Start Num: 6
Candidate Starts for Rideau_41:
(Start: 6 @20560 has 7 MA's), (11, 20695), (12, 20716), (14, 20734), (26, 20884), (30, 20941), (34, 20986), (36, 21025), (38, 21067), (42, 21157), (46, 21211), (49, 21307), (52, 21364),

Gene: Speedwell_27 Start: 20083, Stop: 21435, Start Num: 2
Candidate Starts for Speedwell_27:
(Start: 2 @20083 has 13 MA's), (3, 20095), (9, 20398), (10, 20410), (13, 20473), (18, 20518), (19, 20545), (21, 20599), (24, 20638), (27, 20695), (35, 20812), (44, 20983), (46, 21019), (53, 21211), (57, 21265),

Gene: SunsetPointe_22 Start: 17370, Stop: 18710, Start Num: 2
Candidate Starts for SunsetPointe_22:
(Start: 2 @17370 has 13 MA's), (3, 17382), (4, 17409), (Start: 7 @17655 has 6 MA's), (17, 17787), (24, 17919), (43, 18249), (57, 18540),

Gene: Unstoppable_22 Start: 17371, Stop: 18711, Start Num: 2
Candidate Starts for Unstoppable_22:
(Start: 2 @17371 has 13 MA's), (3, 17383), (4, 17410), (Start: 7 @17656 has 6 MA's), (17, 17788), (24, 17920), (43, 18250), (57, 18541),

Gene: Urza_23 Start: 18073, Stop: 19185, Start Num: 7
Candidate Starts for Urza_23:
(Start: 7 @18073 has 6 MA's), (8, 18085), (29, 18436), (33, 18469), (37, 18571), (39, 18595), (41, 18679), (50, 18925), (54, 18955), (56, 18988), (58, 19021), (60, 19084), (63, 19144), (64, 19171),

Gene: VieEnRose_23 Start: 18139, Stop: 19194, Start Num: 7
Candidate Starts for VieEnRose_23:
(5, 17932), (Start: 7 @18139 has 6 MA's), (8, 18151), (22, 18355), (32, 18472), (37, 18580), (39, 18604), (41, 18688), (45, 18748), (50, 18934), (54, 18964), (56, 18997), (59, 19036), (60, 19093), (63, 19153), (64, 19180),

Gene: Vrykolakas_39 Start: 20409, Stop: 21440, Start Num: 6
Candidate Starts for Vrykolakas_39:
(Start: 6 @20409 has 7 MA's), (14, 20583), (26, 20733), (30, 20790), (31, 20808), (34, 20835), (36, 20874), (42, 21006), (47, 21069), (49, 21156), (52, 21213), (61, 21345),

Gene: phiHau3_24 Start: 18029, Stop: 19276, Start Num: 1
Candidate Starts for phiHau3_24:
(Start: 1 @18029 has 3 MA's), (Start: 7 @18314 has 6 MA's), (10, 18338), (14, 18395), (15, 18404), (16, 18407), (20, 18449), (25, 18524), (28, 18581), (31, 18608), (35, 18665), (40, 18797), (46, 18872), (48, 18941), (51, 19043), (55, 19070), (57, 19115),