Pham 102716

10 14 16 18 22 25 29
1: Sejanus_48
7 8 9 12 14 15 25 26 27 32
2: Frokostdame_45
1 3 4 5 7 9 13 14 17 19 25
3: Bunnybear_38 + 1
3 4 5 9 13 14 17 19 23 25 30 31
4: AlumE_45
3 4 5 9 13 14 17 19 23 25 30 31
5: EdnaMode_39 + 10
6 9 10 14 20 21 24
6: Maravista_46 + 5
10 14 16 18 22 25 28 29
7: Che9c_47

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 102716 Report

This analysis was run 04/28/24 on database version 559.

Pham number 102716 has 23 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Sejanus_48
• Track 2 : Frokostdame_45
• Track 3 : Bunnybear_38, Maridalia_46
• Track 4 : AlumE_45
• Track 5 : EdnaMode_39, Suscepit_45, Eudoria_45, Pickett_38, Yeet412_40, Tayonia_45, Trumpet_45, Zirinka_42, Neobush_45, Antonio_45, Zameen_45
• Track 6 : Maravista_46, Byougenkin_43, Fancypants_46, Bubbles123_43, Wachhund_48, QuickMath_46
• Track 7 : Che9c_47

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

The start number called the most often in the published annotations is 17, it was called in 13 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AlumE_45, Antonio_45, Bunnybear_38, EdnaMode_39, Eudoria_45, Maridalia_46, Neobush_45, Pickett_38, Suscepit_45, Tayonia_45, Trumpet_45, Yeet412_40, Zameen_45, Zirinka_42,

Genes that have the "Most Annotated" start but do not call it:
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Genes that do not have the "Most Annotated" start:
• Bubbles123_43, Byougenkin_43, Che9c_47, Fancypants_46, Frokostdame_45, Maravista_46, QuickMath_46, Sejanus_48, Wachhund_48,

Summary by start number:

Start 15:
• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Frokostdame_45 (CV),

Start 16:
• Found in 2 of 23 (8.7%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Sejanus_48 (AD),

Start 17:
• Found in 14 of 23 (60.9%) of genes in pham
• Manual Annotations of this start: 13 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AlumE_45 (CZ1), Antonio_45 (CZ1), Bunnybear_38 (CZ), EdnaMode_39 (CZ2), Eudoria_45 (CZ1), Maridalia_46 (CZ1), Neobush_45 (CZ1), Pickett_38 (CZ2), Suscepit_45 (CZ1), Tayonia_45 (CZ1), Trumpet_45 (CZ1), Yeet412_40 (CZ2), Zameen_45 (CZ1), Zirinka_42 (CZ1),

Start 18:
• Found in 2 of 23 (8.7%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Che9c_47 (I2),

Start 21:
• Found in 6 of 23 (26.1%) of genes in pham
• Manual Annotations of this start: 6 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bubbles123_43 (F1), Byougenkin_43 (F1), Fancypants_46 (F1), Maravista_46 (F1), QuickMath_46 (F1), Wachhund_48 (F1),

Summary by clusters:

There are 7 clusters represented in this pham: F1, I2, AD, CZ2, CZ1, CZ, CV,

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

Info for manual annotations of cluster CV:
•Start number 15 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CZ:
•Start number 17 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 17 was manually annotated 10 times for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 17 was manually annotated 2 times for cluster CZ2.

Info for manual annotations of cluster F1:
•Start number 21 was manually annotated 6 times for cluster F1.

Info for manual annotations of cluster I2:

•Start number 18 was manually annotated 1 time for cluster I2.

Gene Information:

Gene: AlumE_45 Start: 35077, Stop: 35328, Start Num: 17
Candidate Starts for AlumE_45:
(2, 34750), (3, 34753), (4, 34792), (5, 34822), (9, 34960), (13, 34993), (14, 35011), (Start: 17 @35077 has 13 MA's), (19, 35092), (23, 35170), (25, 35227), (30, 35287), (31, 35317),

Gene: Antonio_45 Start: 34350, Stop: 34601, Start Num: 17
Candidate Starts for Antonio_45:
(2, 34023), (3, 34026), (4, 34065), (5, 34095), (9, 34233), (13, 34266), (14, 34284), (Start: 17 @34350 has 13 MA's), (19, 34365), (23, 34443), (25, 34500), (30, 34560), (31, 34590),

Gene: Bubbles123_43 Start: 35334, Stop: 35534, Start Num: 21
Candidate Starts for Bubbles123_43:
(6, 35130), (9, 35160), (10, 35175), (14, 35211), (20, 35313), (Start: 21 @35334 has 6 MA's), (24, 35400),

Gene: Bunnybear_38 Start: 32748, Stop: 32999, Start Num: 17
Candidate Starts for Bunnybear_38:
(1, 32019), (3, 32424), (4, 32463), (5, 32493), (7, 32607), (9, 32631), (13, 32664), (14, 32682), (Start: 17 @32748 has 13 MA's), (19, 32763), (25, 32898),

Gene: Byougenkin_43 Start: 34723, Stop: 34923, Start Num: 21
Candidate Starts for Byougenkin_43:
(6, 34519), (9, 34549), (10, 34564), (14, 34600), (20, 34702), (Start: 21 @34723 has 6 MA's), (24, 34789),

Gene: Che9c_47 Start: 38394, Stop: 38627, Start Num: 18
Candidate Starts for Che9c_47:
(10, 38289), (11, 38292), (14, 38325), (Start: 16 @38379 has 1 MA's), (Start: 18 @38394 has 1 MA's), (22, 38454), (25, 38535), (28, 38559), (29, 38565),

Gene: EdnaMode_39 Start: 30171, Stop: 30422, Start Num: 17
Candidate Starts for EdnaMode_39:
(2, 29844), (3, 29847), (4, 29886), (5, 29916), (9, 30054), (13, 30087), (14, 30105), (Start: 17 @30171 has 13 MA's), (19, 30186), (23, 30264), (25, 30321), (30, 30381), (31, 30411),

Gene: Eudoria_45 Start: 34350, Stop: 34601, Start Num: 17
Candidate Starts for Eudoria_45:
(2, 34023), (3, 34026), (4, 34065), (5, 34095), (9, 34233), (13, 34266), (14, 34284), (Start: 17 @34350 has 13 MA's), (19, 34365), (23, 34443), (25, 34500), (30, 34560), (31, 34590),

Gene: Fancypants_46 Start: 35607, Stop: 35807, Start Num: 21
Candidate Starts for Fancypants_46:
(6, 35403), (9, 35433), (10, 35448), (14, 35484), (20, 35586), (Start: 21 @35607 has 6 MA's), (24, 35673),

Gene: Frokostdame_45 Start: 34500, Stop: 34766, Start Num: 15
Candidate Starts for Frokostdame_45:

(7, 34377), (8, 34392), (9, 34401), (12, 34416), (14, 34452), (Start: 15 @34500 has 1 MA's), (25, 34659), (26, 34671), (27, 34677), (32, 34755),

Gene: Maravista_46 Start: 35616, Stop: 35816, Start Num: 21
Candidate Starts for Maravista_46:
(6, 35412), (9, 35442), (10, 35457), (14, 35493), (20, 35595), (Start: 21 @35616 has 6 MA's), (24, 35682),

Gene: Maridalia_46 Start: 34494, Stop: 34745, Start Num: 17
Candidate Starts for Maridalia_46:
(1, 33765), (3, 34170), (4, 34209), (5, 34239), (7, 34353), (9, 34377), (13, 34410), (14, 34428), (Start: 17 @34494 has 13 MA's), (19, 34509), (25, 34644),

Gene: Neobush_45 Start: 34344, Stop: 34595, Start Num: 17
Candidate Starts for Neobush_45:
(2, 34017), (3, 34020), (4, 34059), (5, 34089), (9, 34227), (13, 34260), (14, 34278), (Start: 17 @34344 has 13 MA's), (19, 34359), (23, 34437), (25, 34494), (30, 34554), (31, 34584),

Gene: Pickett_38 Start: 28647, Stop: 28898, Start Num: 17
Candidate Starts for Pickett_38:
(2, 28320), (3, 28323), (4, 28362), (5, 28392), (9, 28530), (13, 28563), (14, 28581), (Start: 17 @28647 has 13 MA's), (19, 28662), (23, 28740), (25, 28797), (30, 28857), (31, 28887),

Gene: QuickMath_46 Start: 36080, Stop: 36280, Start Num: 21
Candidate Starts for QuickMath_46:
(6, 35876), (9, 35906), (10, 35921), (14, 35957), (20, 36059), (Start: 21 @36080 has 6 MA's), (24, 36146),

Gene: Sejanus_48 Start: 44290, Stop: 44538, Start Num: 16
Candidate Starts for Sejanus_48:
(10, 44200), (14, 44236), (Start: 16 @44290 has 1 MA's), (Start: 18 @44305 has 1 MA's), (22, 44365), (25, 44446), (29, 44476),

Gene: Suscepit_45 Start: 34351, Stop: 34602, Start Num: 17
Candidate Starts for Suscepit_45:
(2, 34024), (3, 34027), (4, 34066), (5, 34096), (9, 34234), (13, 34267), (14, 34285), (Start: 17 @34351 has 13 MA's), (19, 34366), (23, 34444), (25, 34501), (30, 34561), (31, 34591),

Gene: Tayonia_45 Start: 34350, Stop: 34601, Start Num: 17
Candidate Starts for Tayonia_45:
(2, 34023), (3, 34026), (4, 34065), (5, 34095), (9, 34233), (13, 34266), (14, 34284), (Start: 17 @34350 has 13 MA's), (19, 34365), (23, 34443), (25, 34500), (30, 34560), (31, 34590),

Gene: Trumpet_45 Start: 34351, Stop: 34602, Start Num: 17
Candidate Starts for Trumpet_45:
(2, 34024), (3, 34027), (4, 34066), (5, 34096), (9, 34234), (13, 34267), (14, 34285), (Start: 17 @34351 has 13 MA's), (19, 34366), (23, 34444), (25, 34501), (30, 34561), (31, 34591),

Gene: Wachhund_48 Start: 34805, Stop: 35005, Start Num: 21
Candidate Starts for Wachhund_48:
(6, 34601), (9, 34631), (10, 34646), (14, 34682), (20, 34784), (Start: 21 @34805 has 6 MA's), (24, 34871),

Gene: Yeet412_40 Start: 31483, Stop: 31734, Start Num: 17
Candidate Starts for Yeet412_40:
(2, 31156), (3, 31159), (4, 31198), (5, 31228), (9, 31366), (13, 31399), (14, 31417), (Start: 17 @31483 has 13 MA's), (19, 31498), (23, 31576), (25, 31633), (30, 31693), (31, 31723),

Gene: Zameen_45 Start: 34350, Stop: 34601, Start Num: 17
Candidate Starts for Zameen_45:
(2, 34023), (3, 34026), (4, 34065), (5, 34095), (9, 34233), (13, 34266), (14, 34284), (Start: 17 @34350 has 13 MA's), (19, 34365), (23, 34443), (25, 34500), (30, 34560), (31, 34590),

Gene: Zirinka_42 Start: 35090, Stop: 35341, Start Num: 17
Candidate Starts for Zirinka_42:
(2, 34763), (3, 34766), (4, 34805), (5, 34835), (9, 34973), (13, 35006), (14, 35024), (Start: 17 @35090 has 13 MA's), (19, 35105), (23, 35183), (25, 35240), (30, 35300), (31, 35330),