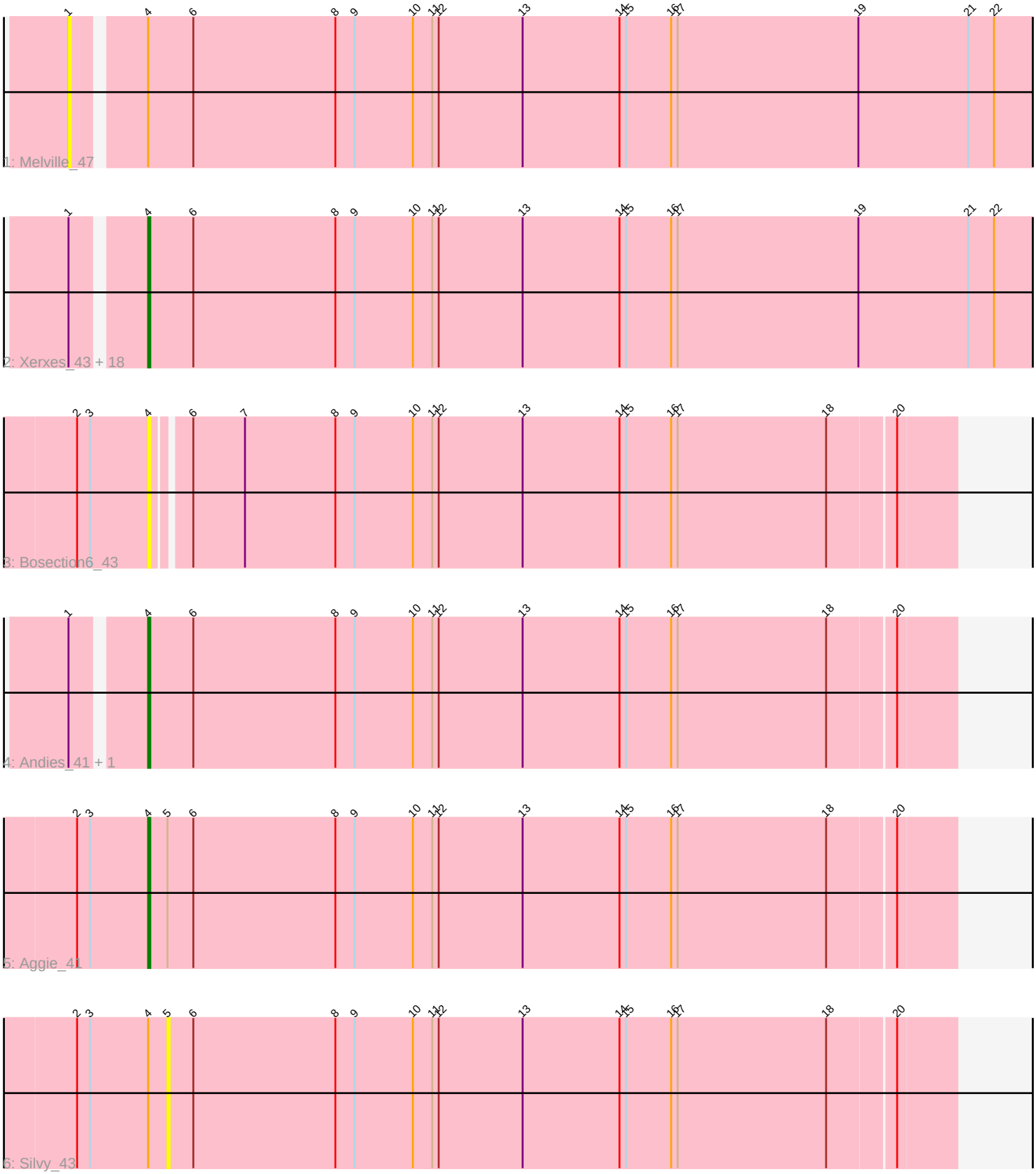
Pham 106566


1: Melville_47
2: Xerxes_43 + 18
3: Bosection6_43
4: Andies_41 + 1
5: Aggie_41
6: Silvy_43

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 106566 Report

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

Pham number 106566 has 25 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Melville_47
• Track 2 : Xerxes_43, Magsby_43, Schnauzer_44, Pipsqueaks_43, Parmesanjohn_43, Duplicity_43, SpongeBob_41, Smurph_43, Snekmaggedon_41, Panchino_40, Fulbright_42, Silvafighter_44, Tapioca_45, Phloss_41, Chewbacca_45, Jamie19_41, Scitech_40, Carcharodon_43, Gex_43
• Track 3 : Bosection6_43
• Track 4 : Andies_41, Phrann_45
• Track 5 : Aggie_41
• Track 6 : Silvy_43

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

The start number called the most often in the published annotations is 4, it was called in 21 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aggie_41, Andies_41, Bosection6_43, Carcharodon_43, Chewbacca_45, Duplicity_43, Fulbright_42, Gex_43, Jamie19_41, Magsby_43, Panchino_40, Parmesanjohn_43, Phloss_41, Phrann_45, Pipsqueaks_43, Schnauzer_44, Scitech_40, Silvafighter_44, Smurph_43, Snekmaggedon_41, SpongeBob_41, Tapioca_45, Xerxes_43,

Genes that have the "Most Annotated" start but do not call it:
• Melville_47, Silvy_43,

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

Summary by start number:

Start 1:
• Found in 22 of 25 (88.0%) of genes in pham
• No Manual Annotations of this start.
• Called 4.5% of time when present

• Phage (with cluster) where this start called: Melville_47 (N),

Start 4:
• Found in 25 of 25 (100.0%) of genes in pham
• Manual Annotations of this start: 21 of 21
• Called 92.0% of time when present
• Phage (with cluster) where this start called: Aggie_41 (N), Andies_41 (N), Bosection6_43 (N), Carcharodon_43 (N), Chewbacca_45 (N), Duplicity_43 (N), Fulbright_42 (N), Gex_43 (N), Jamie19_41 (N), Magsby_43 (N), Panchino_40 (N), Parmesanjohn_43 (N), Phloss_41 (N), Phrann_45 (N), Pipsqueaks_43 (N), Schnauzer_44 (N), Scitech_40 (N), Silvafighter_44 (N), Smurph_43 (N), Snekmaggedon_41 (N), SpongeBob_41 (N), Tapioca_45 (N), Xerxes_43 (N),

Start 5:
• 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: Silvy_43 (N),

Summary by clusters:

There is one cluster represented in this pham: N

Info for manual annotations of cluster N:
•Start number 4 was manually annotated 21 times for cluster N.

Gene Information:

Gene: Aggie_41 Start: 29845, Stop: 30216, Start Num: 4
Candidate Starts for Aggie_41:
(2, 29812), (3, 29818), (Start: 4 @29845 has 21 MA's), (5, 29854), (6, 29866), (8, 29932), (9, 29941), (10, 29968), (11, 29977), (12, 29980), (13, 30019), (14, 30064), (15, 30067), (16, 30088), (17, 30091), (18, 30160), (20, 30190),

Gene: Andies_41 Start: 30361, Stop: 30732, Start Num: 4
Candidate Starts for Andies_41:
(1, 30331), (Start: 4 @30361 has 21 MA's), (6, 30382), (8, 30448), (9, 30457), (10, 30484), (11, 30493), (12, 30496), (13, 30535), (14, 30580), (15, 30583), (16, 30604), (17, 30607), (18, 30676), (20, 30706),

Gene: Bosection6_43 Start: 29741, Stop: 30106, Start Num: 4
Candidate Starts for Bosection6_43:
(2, 29708), (3, 29714), (Start: 4 @29741 has 21 MA's), (6, 29756), (7, 29780), (8, 29822), (9, 29831), (10, 29858), (11, 29867), (12, 29870), (13, 29909), (14, 29954), (15, 29957), (16, 29978), (17, 29981), (18, 30050), (20, 30080),

Gene: Carcharodon_43 Start: 31045, Stop: 31455, Start Num: 4
Candidate Starts for Carcharodon_43:
(1, 31015), (Start: 4 @31045 has 21 MA's), (6, 31066), (8, 31132), (9, 31141), (10, 31168), (11, 31177), (12, 31180), (13, 31219), (14, 31264), (15, 31267), (16, 31288), (17, 31291), (19, 31375), (21, 31426), (22, 31438),

Gene: Chewbacca_45 Start: 31045, Stop: 31455, Start Num: 4
Candidate Starts for Chewbacca_45:
(1, 31015), (Start: 4 @31045 has 21 MA's), (6, 31066), (8, 31132), (9, 31141), (10, 31168), (11, 31177), (12, 31180), (13, 31219), (14, 31264), (15, 31267), (16, 31288), (17, 31291), (19, 31375), (21, 31426), (22, 31438),

Gene: Duplicity_43 Start: 31054, Stop: 31464, Start Num: 4
Candidate Starts for Duplicity_43:
(1, 31024), (Start: 4 @31054 has 21 MA's), (6, 31075), (8, 31141), (9, 31150), (10, 31177), (11, 31186), (12, 31189), (13, 31228), (14, 31273), (15, 31276), (16, 31297), (17, 31300), (19, 31384), (21, 31435), (22, 31447),

Gene: Fulbright_42 Start: 30134, Stop: 30544, Start Num: 4
Candidate Starts for Fulbright_42:
(1, 30104), (Start: 4 @30134 has 21 MA's), (6, 30155), (8, 30221), (9, 30230), (10, 30257), (11, 30266), (12, 30269), (13, 30308), (14, 30353), (15, 30356), (16, 30377), (17, 30380), (19, 30464), (21, 30515), (22, 30527),

Gene: Gex_43 Start: 31061, Stop: 31471, Start Num: 4
Candidate Starts for Gex_43:
(1, 31031), (Start: 4 @31061 has 21 MA's), (6, 31082), (8, 31148), (9, 31157), (10, 31184), (11, 31193), (12, 31196), (13, 31235), (14, 31280), (15, 31283), (16, 31304), (17, 31307), (19, 31391), (21, 31442), (22, 31454),

Gene: Jamie19_41 Start: 30242, Stop: 30652, Start Num: 4
Candidate Starts for Jamie19_41:
(1, 30212), (Start: 4 @30242 has 21 MA's), (6, 30263), (8, 30329), (9, 30338), (10, 30365), (11, 30374), (12, 30377), (13, 30416), (14, 30461), (15, 30464), (16, 30485), (17, 30488), (19, 30572), (21, 30623), (22, 30635),

Gene: Magsby_43 Start: 31062, Stop: 31472, Start Num: 4
Candidate Starts for Magsby_43:
(1, 31032), (Start: 4 @31062 has 21 MA's), (6, 31083), (8, 31149), (9, 31158), (10, 31185), (11, 31194), (12, 31197), (13, 31236), (14, 31281), (15, 31284), (16, 31305), (17, 31308), (19, 31392), (21, 31443), (22, 31455),

Gene: Melville_47 Start: 31016, Stop: 31456, Start Num: 1
Candidate Starts for Melville_47:
(1, 31016), (Start: 4 @31046 has 21 MA's), (6, 31067), (8, 31133), (9, 31142), (10, 31169), (11, 31178), (12, 31181), (13, 31220), (14, 31265), (15, 31268), (16, 31289), (17, 31292), (19, 31376), (21, 31427), (22, 31439),

Gene: Panchino_40 Start: 31588, Stop: 31998, Start Num: 4
Candidate Starts for Panchino_40:
(1, 31558), (Start: 4 @31588 has 21 MA's), (6, 31609), (8, 31675), (9, 31684), (10, 31711), (11, 31720), (12, 31723), (13, 31762), (14, 31807), (15, 31810), (16, 31831), (17, 31834), (19, 31918), (21, 31969), (22, 31981),

Gene: Parmesanjohn_43 Start: 31065, Stop: 31475, Start Num: 4
Candidate Starts for Parmesanjohn_43:
(1, 31035), (Start: 4 @31065 has 21 MA's), (6, 31086), (8, 31152), (9, 31161), (10, 31188), (11, 31197), (12, 31200), (13, 31239), (14, 31284), (15, 31287), (16, 31308), (17, 31311), (19, 31395), (21,

31446), (22, 31458),

Gene: Phloss_41 Start: 30472, Stop: 30882, Start Num: 4
Candidate Starts for Phloss_41:
(1, 30442), (Start: 4 @30472 has 21 MA's), (6, 30493), (8, 30559), (9, 30568), (10, 30595), (11, 30604), (12, 30607), (13, 30646), (14, 30691), (15, 30694), (16, 30715), (17, 30718), (19, 30802), (21, 30853), (22, 30865),

Gene: Phrann_45 Start: 32268, Stop: 32639, Start Num: 4
Candidate Starts for Phrann_45:
(1, 32238), (Start: 4 @32268 has 21 MA's), (6, 32289), (8, 32355), (9, 32364), (10, 32391), (11, 32400), (12, 32403), (13, 32442), (14, 32487), (15, 32490), (16, 32511), (17, 32514), (18, 32583), (20, 32613),

Gene: Pipsqueaks_43 Start: 31042, Stop: 31452, Start Num: 4
Candidate Starts for Pipsqueaks_43:
(1, 31012), (Start: 4 @31042 has 21 MA's), (6, 31063), (8, 31129), (9, 31138), (10, 31165), (11, 31174), (12, 31177), (13, 31216), (14, 31261), (15, 31264), (16, 31285), (17, 31288), (19, 31372), (21, 31423), (22, 31435),

Gene: Schnauzer_44 Start: 31065, Stop: 31475, Start Num: 4
Candidate Starts for Schnauzer_44:
(1, 31035), (Start: 4 @31065 has 21 MA's), (6, 31086), (8, 31152), (9, 31161), (10, 31188), (11, 31197), (12, 31200), (13, 31239), (14, 31284), (15, 31287), (16, 31308), (17, 31311), (19, 31395), (21, 31446), (22, 31458),

Gene: Scitech_40 Start: 29081, Stop: 29491, Start Num: 4
Candidate Starts for Scitech_40:
(1, 29051), (Start: 4 @29081 has 21 MA's), (6, 29102), (8, 29168), (9, 29177), (10, 29204), (11, 29213), (12, 29216), (13, 29255), (14, 29300), (15, 29303), (16, 29324), (17, 29327), (19, 29411), (21, 29462), (22, 29474),

Gene: Silvafighter_44 Start: 31038, Stop: 31448, Start Num: 4
Candidate Starts for Silvafighter_44:
(1, 31008), (Start: 4 @31038 has 21 MA's), (6, 31059), (8, 31125), (9, 31134), (10, 31161), (11, 31170), (12, 31173), (13, 31212), (14, 31257), (15, 31260), (16, 31281), (17, 31284), (19, 31368), (21, 31419), (22, 31431),

Gene: Silvy_43 Start: 29854, Stop: 30216, Start Num: 5
Candidate Starts for Silvy_43:
(2, 29812), (3, 29818), (Start: 4 @29845 has 21 MA's), (5, 29854), (6, 29866), (8, 29932), (9, 29941), (10, 29968), (11, 29977), (12, 29980), (13, 30019), (14, 30064), (15, 30067), (16, 30088), (17, 30091), (18, 30160), (20, 30190),

Gene: Smurph_43 Start: 31065, Stop: 31475, Start Num: 4
Candidate Starts for Smurph_43:
(1, 31035), (Start: 4 @31065 has 21 MA's), (6, 31086), (8, 31152), (9, 31161), (10, 31188), (11, 31197), (12, 31200), (13, 31239), (14, 31284), (15, 31287), (16, 31308), (17, 31311), (19, 31395), (21, 31446), (22, 31458),

Gene: Snekmaggedon_41 Start: 30242, Stop: 30652, Start Num: 4
Candidate Starts for Snekmaggedon_41:

(1, 30212), (Start: 4 @30242 has 21 MA's), (6, 30263), (8, 30329), (9, 30338), (10, 30365), (11, 30374), (12, 30377), (13, 30416), (14, 30461), (15, 30464), (16, 30485), (17, 30488), (19, 30572), (21, 30623), (22, 30635),

Gene: SpongeBob_41 Start: 30242, Stop: 30652, Start Num: 4
Candidate Starts for SpongeBob_41:
(1, 30212), (Start: 4 @30242 has 21 MA's), (6, 30263), (8, 30329), (9, 30338), (10, 30365), (11, 30374), (12, 30377), (13, 30416), (14, 30461), (15, 30464), (16, 30485), (17, 30488), (19, 30572), (21, 30623), (22, 30635),

Gene: Tapioca_45 Start: 31031, Stop: 31441, Start Num: 4
Candidate Starts for Tapioca_45:
(1, 31001), (Start: 4 @31031 has 21 MA's), (6, 31052), (8, 31118), (9, 31127), (10, 31154), (11, 31163), (12, 31166), (13, 31205), (14, 31250), (15, 31253), (16, 31274), (17, 31277), (19, 31361), (21, 31412), (22, 31424),

Gene: Xerxes_43 Start: 31062, Stop: 31472, Start Num: 4
Candidate Starts for Xerxes_43:
(1, 31032), (Start: 4 @31062 has 21 MA's), (6, 31083), (8, 31149), (9, 31158), (10, 31185), (11, 31194), (12, 31197), (13, 31236), (14, 31281), (15, 31284), (16, 31305), (17, 31308), (19, 31392), (21, 31443), (22, 31455),