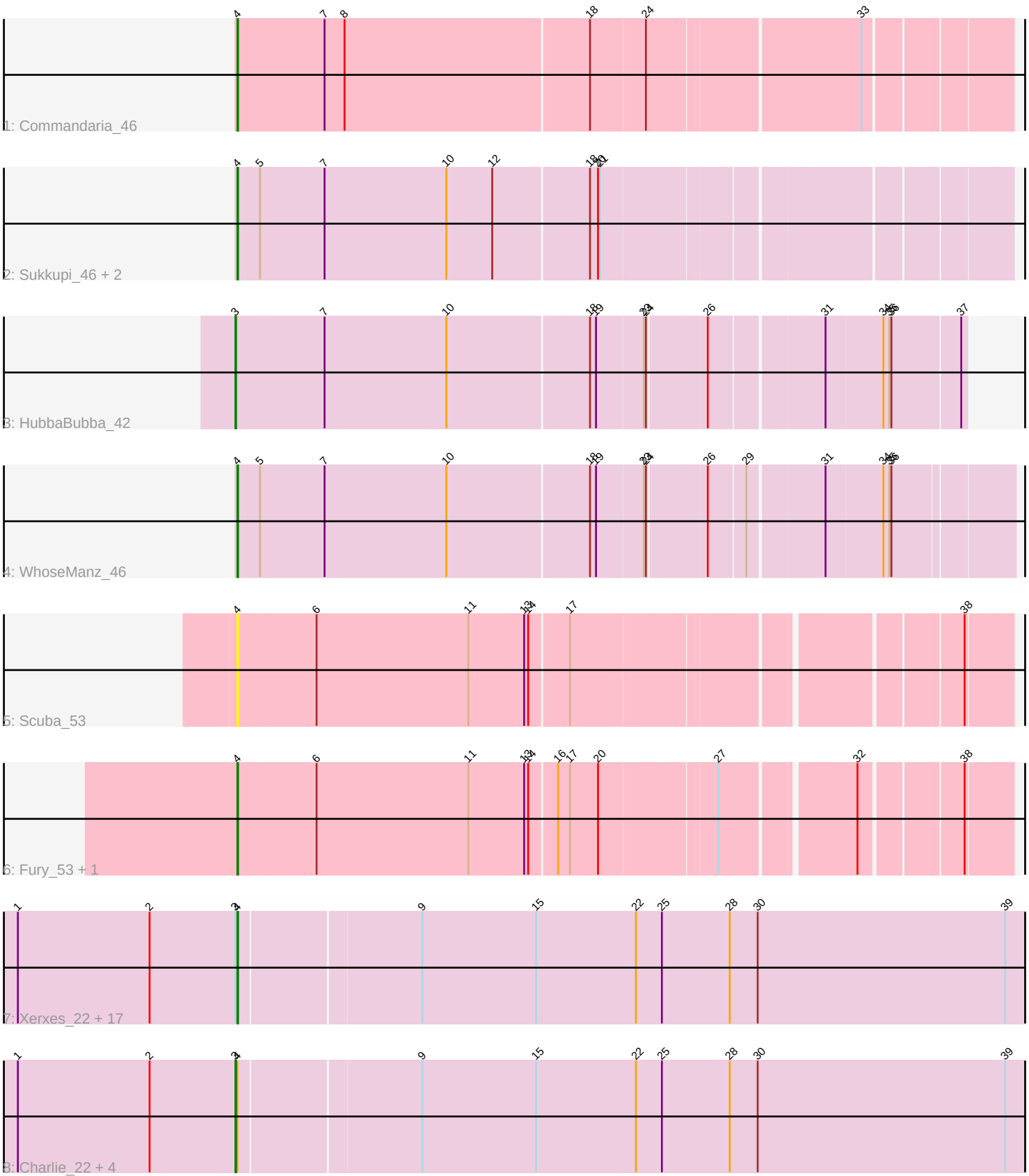
Pham 216411


1: Commandaria_46
2: Sukkupi_46 + 2
3: HubbaBubba_42
4: WhoseManz_46
5: Scuba_53
6: Fury_53 + 1
7: Xerxes_22 + 17
8: Charlie_22 + 4

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 216411 Report

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

Pham number 216411 has 32 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Commandaria_46
• Track 2 : Sukkupi_46, Yndexa_46, BiPauneto_47
• Track 3 : HubbaBubba_42
• Track 4 : WhoseManz_46
• Track 5 : Scuba_53
• Track 6 : Fury_53, Pleakley_53
• Track 7 : Xerxes_22, Journey_22, Silvy_22, Magsby_22, EGUnicorn_23, Melville_22, Parmesanjohn_22, Tortoise12_22, Smurph_22, Chewbacca_22, LilSpotty_25, Duplicity_22, Schnauzer_22, MulchSalad_20, Tapioca_22, Bosection6_22, Gex_22, Silvafighter_22
• Track 8 : Charlie_22, Pipsqueaks_22, Philonius_22, Carcharodon_22, Aggie_22

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 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BiPauneto_47, Bosection6_22, Chewbacca_22, Commandaria_46, Duplicity_22, EGUnicorn_23, Fury_53, Gex_22, Journey_22, LilSpotty_25, Magsby_22, Melville_22, MulchSalad_20, Parmesanjohn_22, Pleakley_53, Schnauzer_22, Scuba_53, Silvafighter_22, Silvy_22, Smurph_22, Sukkupi_46, Tapioca_22, Tortoise12_22, WhoseManz_46, Xerxes_22, Yndexa_46,

Genes that have the "Most Annotated" start but do not call it:
• Aggie_22, Carcharodon_22, Charlie_22, Philonius_22, Pipsqueaks_22,

Genes that do not have the "Most Annotated" start:
• HubbaBubba_42,

Summary by start number:

Start 3:
• Found in 24 of 32 (75.0%) of genes in pham

• Manual Annotations of this start: 6 of 27
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Aggie_22 (N), Carcharodon_22 (N), Charlie_22 (N), HubbaBubba_42 (CR4), Philonius_22 (N), Pipsqueaks_22 (N),

Start 4:
• Found in 31 of 32 (96.9%) of genes in pham
• Manual Annotations of this start: 21 of 27
• Called 83.9% of time when present
• Phage (with cluster) where this start called: BiPauneto_47 (CR4), Bosection6_22 (N), Chewbacca_22 (N), Commandaria_46 (CR2), Duplicity_22 (N), EGUnicorn_23 (N), Fury_53 (CR5), Gex_22 (N), Journey_22 (N), LilSpotty_25 (singleton), Magsby_22 (N), Melville_22 (N), MulchSalad_20 (F), Parmesanjohn_22 (N), Pleakley_53 (CR5), Schnauzer_22 (N), Scuba_53 (CR5), Silvafighter_22 (N), Silvy_22 (N), Smurph_22 (N), Sukkupi_46 (CR4), Tapioca_22 (N), Tortoise12_22 (N), WhoseManz_46 (CR4), Xerxes_22 (N), Yndexa_46 (CR4),

Summary by clusters:

There are 6 clusters represented in this pham: CR2, singleton, CR4, CR5, F, N,

Info for manual annotations of cluster CR2:
•Start number 4 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR4:
•Start number 3 was manually annotated 1 time for cluster CR4.
•Start number 4 was manually annotated 4 times for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 4 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster N:
•Start number 3 was manually annotated 5 times for cluster N.
•Start number 4 was manually annotated 13 times for cluster N.

Gene Information:

Gene: Aggie_22 Start: 20221, Stop: 21438, Start Num: 3
Candidate Starts for Aggie_22:
(1, 19894), (2, 20092), (Start: 3 @20221 has 6 MA's), (Start: 4 @20224 has 21 MA's), (9, 20485), (15, 20656), (22, 20806), (25, 20845), (28, 20947), (30, 20989), (39, 21361),

Gene: BiPauneto_47 Start: 34721, Stop: 35812, Start Num: 4
Candidate Starts for BiPauneto_47:
(Start: 4 @34721 has 21 MA's), (5, 34754), (7, 34850), (10, 35033), (12, 35102), (18, 35240), (20, 35252), (21, 35255),

Gene: Bosection6_22 Start: 20223, Stop: 21437, Start Num: 4
Candidate Starts for Bosection6_22:

(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: Carcharodon_22 Start: 20220, Stop: 21437, Start Num: 3
Candidate Starts for Carcharodon_22:
(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: Charlie_22 Start: 20220, Stop: 21437, Start Num: 3
Candidate Starts for Charlie_22:
(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: Chewbacca_22 Start: 20223, Stop: 21437, Start Num: 4
Candidate Starts for Chewbacca_22:
(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: Commandaria_46 Start: 36317, Stop: 37420, Start Num: 4
Candidate Starts for Commandaria_46:
(Start: 4 @36317 has 21 MA's), (7, 36446), (8, 36476), (18, 36836), (24, 36917), (33, 37220),

Gene: Duplicity_22 Start: 20223, Stop: 21437, Start Num: 4
Candidate Starts for Duplicity_22:
(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: EGUnicorn_23 Start: 20223, Stop: 21437, Start Num: 4
Candidate Starts for EGUnicorn_23:
(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: Fury_53 Start: 35397, Stop: 36479, Start Num: 4
Candidate Starts for Fury_53:
(Start: 4 @35397 has 21 MA's), (6, 35514), (11, 35742), (13, 35826), (14, 35832), (16, 35871), (17, 35886), (20, 35928), (27, 36093), (32, 36273), (38, 36411),

Gene: Gex_22 Start: 20219, Stop: 21433, Start Num: 4
Candidate Starts for Gex_22:
(1, 19889), (2, 20087), (Start: 3 @20216 has 6 MA's), (Start: 4 @20219 has 21 MA's), (9, 20480), (15, 20651), (22, 20801), (25, 20840), (28, 20942), (30, 20984), (39, 21356),

Gene: HubbaBubba_42 Start: 31720, Stop: 32760, Start Num: 3
Candidate Starts for HubbaBubba_42:
(Start: 3 @31720 has 6 MA's), (7, 31852), (10, 32035), (18, 32242), (19, 32251), (23, 32320), (24, 32323), (26, 32407), (31, 32560), (34, 32644), (35, 32653), (36, 32656), (37, 32752),

Gene: Journey_22 Start: 20223, Stop: 21437, Start Num: 4
Candidate Starts for Journey_22:
(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: LilSpotty_25 Start: 21191, Stop: 22405, Start Num: 4

Candidate Starts for LilSpotty_25:
(1, 20861), (2, 21059), (Start: 3 @21188 has 6 MA's), (Start: 4 @21191 has 21 MA's), (9, 21452), (15, 21623), (22, 21773), (25, 21812), (28, 21914), (30, 21956), (39, 22328),

Gene: Magsby_22 Start: 20220, Stop: 21434, Start Num: 4
Candidate Starts for Magsby_22:
(1, 19890), (2, 20088), (Start: 3 @20217 has 6 MA's), (Start: 4 @20220 has 21 MA's), (9, 20481), (15, 20652), (22, 20802), (25, 20841), (28, 20943), (30, 20985), (39, 21357),

Gene: Melville_22 Start: 20223, Stop: 21437, Start Num: 4
Candidate Starts for Melville_22:
(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: MulchSalad_20 Start: 19992, Stop: 21206, Start Num: 4
Candidate Starts for MulchSalad_20:
(1, 19662), (2, 19860), (Start: 3 @19989 has 6 MA's), (Start: 4 @19992 has 21 MA's), (9, 20253), (15, 20424), (22, 20574), (25, 20613), (28, 20715), (30, 20757), (39, 21129),

Gene: Parmesanjohn_22 Start: 20223, Stop: 21437, Start Num: 4
Candidate Starts for Parmesanjohn_22:
(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: Philonius_22 Start: 20220, Stop: 21437, Start Num: 3
Candidate Starts for Philonius_22:
(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: Pipsqueaks_22 Start: 20220, Stop: 21437, Start Num: 3
Candidate Starts for Pipsqueaks_22:
(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: Pleakley_53 Start: 35398, Stop: 36480, Start Num: 4
Candidate Starts for Pleakley_53:
(Start: 4 @35398 has 21 MA's), (6, 35515), (11, 35743), (13, 35827), (14, 35833), (16, 35872), (17, 35887), (20, 35929), (27, 36094), (32, 36274), (38, 36412),

Gene: Schnauzer_22 Start: 20223, Stop: 21437, Start Num: 4
Candidate Starts for Schnauzer_22:
(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: Scuba_53 Start: 35472, Stop: 36554, Start Num: 4
Candidate Starts for Scuba_53:
(Start: 4 @35472 has 21 MA's), (6, 35589), (11, 35817), (13, 35901), (14, 35907), (17, 35961), (38, 36486),

Gene: Silvafighter_22 Start: 20223, Stop: 21437, Start Num: 4
Candidate Starts for Silvafighter_22:
(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: Silvy_22 Start: 20224, Stop: 21438, Start Num: 4
Candidate Starts for Silvy_22:
(1, 19894), (2, 20092), (Start: 3 @20221 has 6 MA's), (Start: 4 @20224 has 21 MA's), (9, 20485), (15, 20656), (22, 20806), (25, 20845), (28, 20947), (30, 20989), (39, 21361),

Gene: Smurph_22 Start: 20223, Stop: 21437, Start Num: 4
Candidate Starts for Smurph_22:
(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: Sukkupi_46 Start: 34612, Stop: 35703, Start Num: 4
Candidate Starts for Sukkupi_46:
(Start: 4 @34612 has 21 MA's), (5, 34645), (7, 34741), (10, 34924), (12, 34993), (18, 35131), (20, 35143), (21, 35146),

Gene: Tapioca_22 Start: 20223, Stop: 21437, Start Num: 4
Candidate Starts for Tapioca_22:
(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: Tortoise12_22 Start: 20223, Stop: 21437, Start Num: 4
Candidate Starts for Tortoise12_22:
(1, 19893), (2, 20091), (Start: 3 @20220 has 6 MA's), (Start: 4 @20223 has 21 MA's), (9, 20484), (15, 20655), (22, 20805), (25, 20844), (28, 20946), (30, 20988), (39, 21360),

Gene: WhoseManz_46 Start: 32658, Stop: 33761, Start Num: 4
Candidate Starts for WhoseManz_46:
(Start: 4 @32658 has 21 MA's), (5, 32691), (7, 32787), (10, 32970), (18, 33177), (19, 33186), (23, 33255), (24, 33258), (26, 33342), (29, 33393), (31, 33495), (34, 33579), (35, 33588), (36, 33591),

Gene: Xerxes_22 Start: 20220, Stop: 21434, Start Num: 4
Candidate Starts for Xerxes_22:
(1, 19890), (2, 20088), (Start: 3 @20217 has 6 MA's), (Start: 4 @20220 has 21 MA's), (9, 20481), (15, 20652), (22, 20802), (25, 20841), (28, 20943), (30, 20985), (39, 21357),

Gene: Yndexa_46 Start: 34612, Stop: 35703, Start Num: 4
Candidate Starts for Yndexa_46:
(Start: 4 @34612 has 21 MA's), (5, 34645), (7, 34741), (10, 34924), (12, 34993), (18, 35131), (20, 35143), (21, 35146),