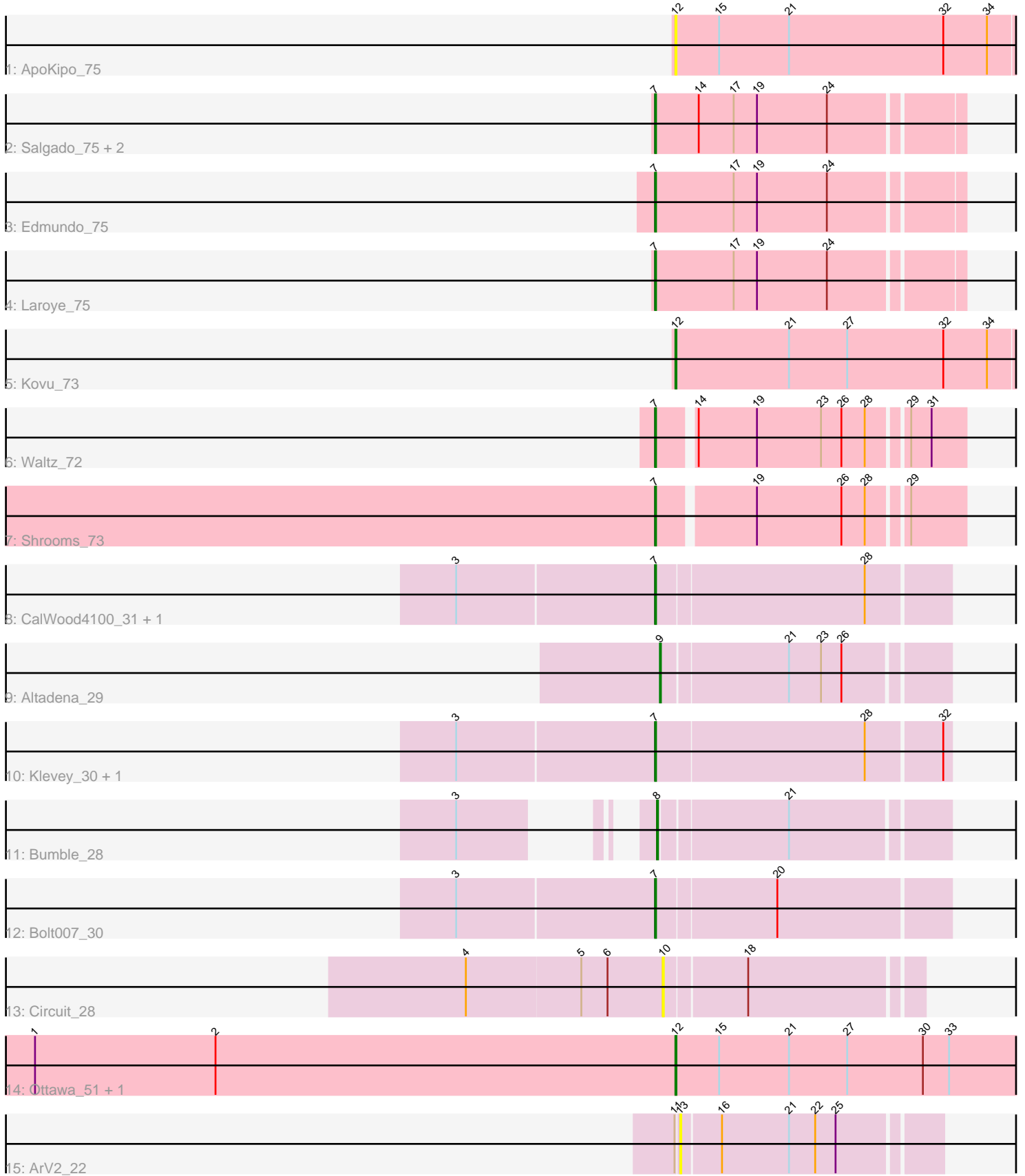# Pham 212997

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 212997 Report

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

Pham number 212997 has 20 members, 4 are drafts.

Phages represented in each track:
• Track 1 : ApoKipo_75
• Track 2 : Salgado_75, LiSara_72, Wheelbite_71
• Track 3 : Edmundo_75
• Track 4 : Laroye_75
• Track 5 : Kovu_73
• Track 6 : Waltz_72
• Track 7 : Shrooms_73
• Track 8 : CalWood4100_31, Lilmac1015_31
• Track 9 : Altadena_29
• Track 10 : Klevey_30, Prairie_28
• Track 11 : Bumble_28
• Track 12 : Bolt007_30
• Track 13 : Circuit_28
• Track 14 : Ottawa_51, Kharcho_51
• Track 15 : ArV2_22

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

The start number called the most often in the published annotations is 7, it was called in 11 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bolt007_30, CalWood4100_31, Edmundo_75, Klevey_30, Laroye_75, LiSara_72, Lilmac1015_31, Prairie_28, Salgado_75, Shrooms_73, Waltz_72, Wheelbite_71,

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

Genes that do not have the "Most Annotated" start:
• Altadena_29, ApoKipo_75, ArV2_22, Bumble_28, Circuit_28, Kharcho_51, Kovu_73, Ottawa_51,

Summary by start number:

Start 7:
• Found in 12 of 20 (60.0%) of genes in pham
• Manual Annotations of this start: 11 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bolt007_30 (FH), CalWood4100_31 (FH), Edmundo_75 (AL), Klevey_30 (FH), Laroye_75 (AL), LiSara_72 (AL), Lilmac1015_31 (FH), Prairie_28 (FH), Salgado_75 (AL), Shrooms_73 (AL), Waltz_72 (AL), Wheelbite_71 (AL),

Start 8:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bumble_28 (FH),

Start 9:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altadena_29 (FH),

Start 10:
• Found in 1 of 20 (5.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Circuit_28 (FH),

Start 12:
• Found in 4 of 20 (20.0%) of genes in pham
• Manual Annotations of this start: 3 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ApoKipo_75 (AL), Kharcho_51 (FM), Kovu_73 (AL), Ottawa_51 (FM),

Start 13:
• Found in 1 of 20 (5.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArV2_22 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: FH, singleton, AL, FM,

Info for manual annotations of cluster AL:
•Start number 7 was manually annotated 7 times for cluster AL.
•Start number 12 was manually annotated 1 time for cluster AL.

Info for manual annotations of cluster FH:
•Start number 7 was manually annotated 4 times for cluster FH.
•Start number 8 was manually annotated 1 time for cluster FH.
•Start number 9 was manually annotated 1 time for cluster FH.

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

Gene Information:

Gene: Altadena_29 Start: 23573, Stop: 23854, Start Num: 9
Candidate Starts for Altadena_29:
(Start: 9 @23573 has 1 MA's), (21, 23699), (23, 23732), (26, 23753),

Gene: ApoKipo_75 Start: 46678, Stop: 47055, Start Num: 12
Candidate Starts for ApoKipo_75:
(Start: 12 @46678 has 3 MA's), (15, 46723), (21, 46795), (32, 46954), (34, 46999),

Gene: ArV2_22 Start: 17796, Stop: 18050, Start Num: 13
Candidate Starts for ArV2_22:
(11, 17793), (13, 17796), (16, 17835), (21, 17904), (22, 17931), (25, 17952),

Gene: Bolt007_30 Start: 22624, Stop: 22917, Start Num: 7
Candidate Starts for Bolt007_30:
(3, 22423), (Start: 7 @22624 has 11 MA's), (20, 22744),

Gene: Bumble_28 Start: 23367, Stop: 23648, Start Num: 8
Candidate Starts for Bumble_28:
(3, 23265), (Start: 8 @23367 has 1 MA's), (21, 23493),

Gene: CalWood4100_31 Start: 22617, Stop: 22910, Start Num: 7
Candidate Starts for CalWood4100_31:
(3, 22416), (Start: 7 @22617 has 11 MA's), (28, 22827),

Gene: Circuit_28 Start: 24260, Stop: 24511, Start Num: 10
Candidate Starts for Circuit_28:
(4, 24059), (5, 24176), (6, 24203), (10, 24260), (18, 24341),

Gene: Edmundo_75 Start: 46375, Stop: 46680, Start Num: 7
Candidate Starts for Edmundo_75:
(Start: 7 @46375 has 11 MA's), (17, 46456), (19, 46480), (24, 46552),

Gene: Kharcho_51 Start: 28267, Stop: 28647, Start Num: 12
Candidate Starts for Kharcho_51:
(1, 27607), (2, 27793), (Start: 12 @28267 has 3 MA's), (15, 28312), (21, 28384), (27, 28444), (30, 28522), (33, 28549),

Gene: Klevey_30 Start: 22624, Stop: 22920, Start Num: 7
Candidate Starts for Klevey_30:
(3, 22423), (Start: 7 @22624 has 11 MA's), (28, 22837), (32, 22912),

Gene: Kovu_73 Start: 46323, Stop: 46700, Start Num: 12
Candidate Starts for Kovu_73:
(Start: 12 @46323 has 3 MA's), (21, 46440), (27, 46500), (32, 46599), (34, 46644),

Gene: Laroye_75 Start: 45753, Stop: 46058, Start Num: 7

Candidate Starts for Laroye_75:
(Start: 7 @45753 has 11 MA's), (17, 45834), (19, 45858), (24, 45930),

Gene: LiSara_72 Start: 45918, Stop: 46223, Start Num: 7
Candidate Starts for LiSara_72:
(Start: 7 @45918 has 11 MA's), (14, 45963), (17, 45999), (19, 46023), (24, 46095),

Gene: Lilmac1015_31 Start: 22617, Stop: 22910, Start Num: 7
Candidate Starts for Lilmac1015_31:
(3, 22416), (Start: 7 @22617 has 11 MA's), (28, 22827),

Gene: Ottawa_51 Start: 28265, Stop: 28645, Start Num: 12
Candidate Starts for Ottawa_51:
(1, 27605), (2, 27791), (Start: 12 @28265 has 3 MA's), (15, 28310), (21, 28382), (27, 28442), (30, 28520), (33, 28547),

Gene: Prairie_28 Start: 22645, Stop: 22941, Start Num: 7
Candidate Starts for Prairie_28:
(3, 22444), (Start: 7 @22645 has 11 MA's), (28, 22858), (32, 22933),

Gene: Salgado_75 Start: 45569, Stop: 45874, Start Num: 7
Candidate Starts for Salgado_75:
(Start: 7 @45569 has 11 MA's), (14, 45614), (17, 45650), (19, 45674), (24, 45746),

Gene: Shrooms_73 Start: 44046, Stop: 44342, Start Num: 7
Candidate Starts for Shrooms_73:
(Start: 7 @44046 has 11 MA's), (19, 44139), (26, 44226), (28, 44250), (29, 44286),

Gene: Waltz_72 Start: 44062, Stop: 44358, Start Num: 7
Candidate Starts for Waltz_72:
(Start: 7 @44062 has 11 MA's), (14, 44095), (19, 44155), (23, 44221), (26, 44242), (28, 44266), (29, 44302), (31, 44323),

Gene: Wheelbite_71 Start: 45721, Stop: 46026, Start Num: 7
Candidate Starts for Wheelbite_71:
(Start: 7 @45721 has 11 MA's), (14, 45766), (17, 45802), (19, 45826), (24, 45898),