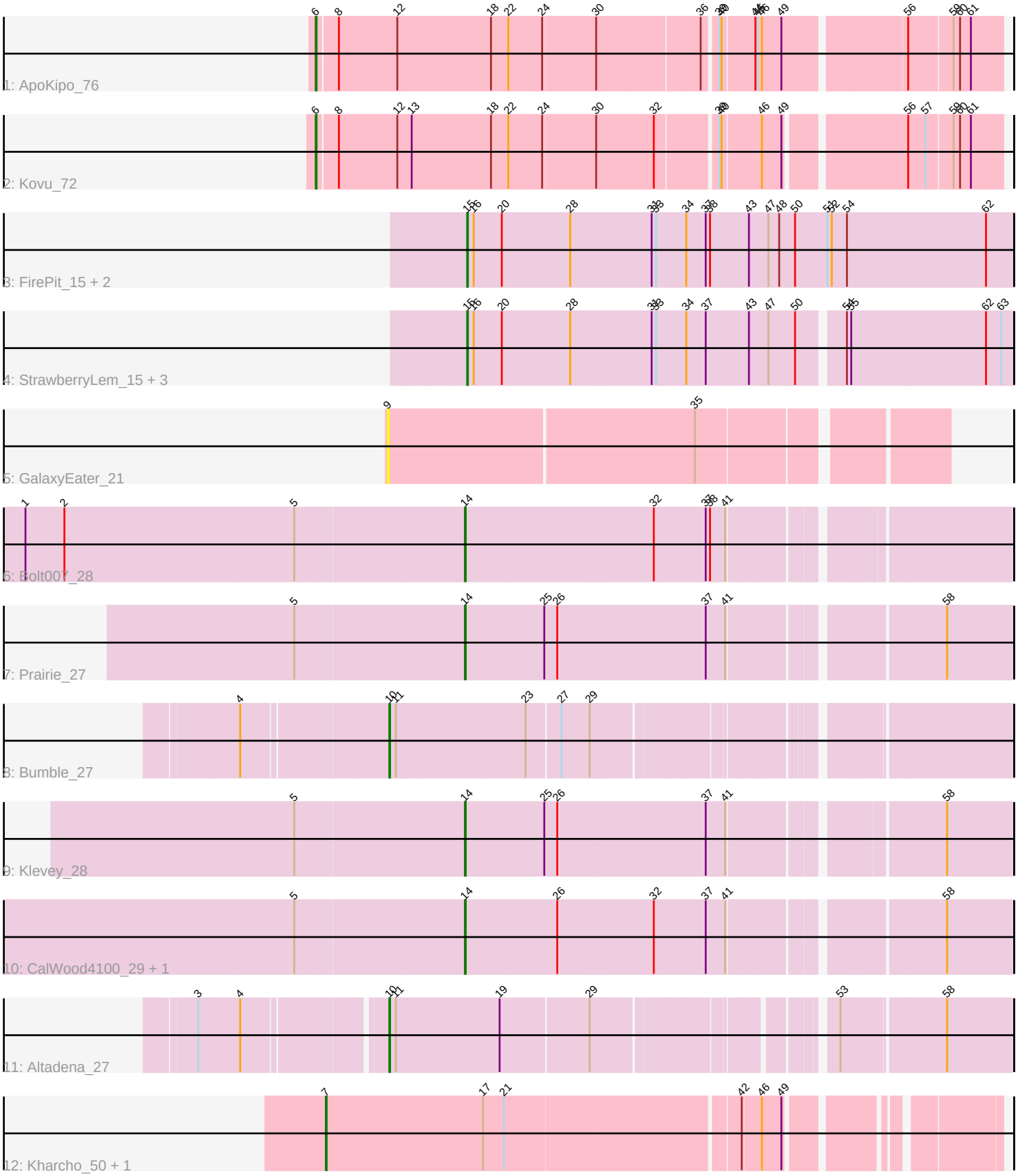
Pham 348072


1: ApoKipo_76
2: Kovu_72
3: FirePit_15 + 2
4: StrawberryLem_15 + 3
5: GalaxyEater_21
6: Bolt007_28
7: Prairie_27
8: Bumble_27
9: Klevey_28
10: CalWood4100_29 + 1
11: Altadena_27
12: Kharcho_50 + 1

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 348072 Report

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

Pham number 348072 has 19 members, 3 are drafts.

Phages represented in each track:
• Track 1 : ApoKipo_76
• Track 2 : Kovu_72
• Track 3 : FirePit_15, Kels_15, Ximeno_15
• Track 4 : StrawberryLem_15, SerialPhiller_15, Arielagos_15, Eyoseyas_15
• Track 5 : GalaxyEater_21
• Track 6 : Bolt007_28
• Track 7 : Prairie_27
• Track 8 : Bumble_27
• Track 9 : Klevey_28
• Track 10 : CalWood4100_29, Lilmac1015_29
• Track 11 : Altadena_27
• Track 12 : Kharcho_50, Ottawa_50

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

The start number called the most often in the published annotations is 15, it was called in 6 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arielagos_15, Eyoseyas_15, FirePit_15, Kels_15, SerialPhiller_15, StrawberryLem_15, Ximeno_15,

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

Genes that do not have the "Most Annotated" start:
• Altadena_27, ApoKipo_76, Bolt007_28, Bumble_27, CalWood4100_29, GalaxyEater_21, Kharcho_50, Klevey_28, Kovu_72, Lilmac1015_29, Ottawa_50, Prairie_27,

Summary by start number:

Start 6:
• Found in 2 of 19 (10.5%) of genes in pham

• Manual Annotations of this start: 2 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ApoKipo_76 (AL), Kovu_72 (AL),

Start 7:
• Found in 2 of 19 (10.5%) of genes in pham
• Manual Annotations of this start: 2 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kharcho_50 (FM), Ottawa_50 (FM),

Start 9:
• Found in 1 of 19 (5.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GalaxyEater_21 (AV),

Start 10:
• Found in 2 of 19 (10.5%) of genes in pham
• Manual Annotations of this start: 2 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altadena_27 (FH), Bumble_27 (FH),

Start 14:
• Found in 5 of 19 (26.3%) of genes in pham
• Manual Annotations of this start: 4 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bolt007_28 (FH), CalWood4100_29 (FH), Klevey_28 (FH), Lilmac1015_29 (FH), Prairie_27 (FH),

Start 15:
• Found in 7 of 19 (36.8%) of genes in pham
• Manual Annotations of this start: 6 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arielagos_15 (AN), Eyoseyas_15 (AN), FirePit_15 (AN), Kels_15 (AN), SerialPhiller_15 (AN), StrawberryLem_15 (AN), Ximeno_15 (AN),

Summary by clusters:

There are 5 clusters represented in this pham: FH, AV, FM, AL, AN,

Info for manual annotations of cluster AL:
•Start number 6 was manually annotated 2 times for cluster AL.

Info for manual annotations of cluster AN:
•Start number 15 was manually annotated 6 times for cluster AN.

Info for manual annotations of cluster FH:
•Start number 10 was manually annotated 2 times for cluster FH.
•Start number 14 was manually annotated 4 times for cluster FH.

Info for manual annotations of cluster FM:

•Start number 7 was manually annotated 2 times for cluster FM.

Gene Information:

Gene: Altadena_27 Start: 22676, Stop: 23449, Start Num: 10
Candidate Starts for Altadena_27:
(3, 22445), (4, 22502), (Start: 10 @22676 has 2 MA's), (11, 22685), (19, 22823), (29, 22943), (53, 23225), (58, 23360),

Gene: ApoKipo_76 Start: 45785, Stop: 46678, Start Num: 6
Candidate Starts for ApoKipo_76:
(Start: 6 @45785 has 2 MA's), (8, 45812), (12, 45893), (18, 46019), (22, 46043), (24, 46088), (30, 46160), (36, 46295), (39, 46313), (40, 46316), (44, 46358), (45, 46361), (46, 46367), (49, 46394), (56, 46553), (59, 46610), (60, 46619), (61, 46634),

Gene: Arielagos_15 Start: 11463, Stop: 12200, Start Num: 15
Candidate Starts for Arielagos_15:
(Start: 15 @11463 has 6 MA's), (16, 11472), (20, 11511), (28, 11604), (31, 11715), (33, 11721), (34, 11763), (37, 11790), (43, 11850), (47, 11877), (50, 11913), (54, 11970), (55, 11976), (62, 12162), (63, 12183),

Gene: Bolt007_28 Start: 21798, Stop: 22505, Start Num: 14
Candidate Starts for Bolt007_28:
(1, 21195), (2, 21249), (5, 21567), (Start: 14 @21798 has 4 MA's), (32, 22053), (37, 22125), (38, 22131), (41, 22152),

Gene: Bumble_27 Start: 22565, Stop: 23347, Start Num: 10
Candidate Starts for Bumble_27:
(4, 22376), (Start: 10 @22565 has 2 MA's), (11, 22574), (23, 22748), (27, 22793), (29, 22832),

Gene: CalWood4100_29 Start: 21788, Stop: 22498, Start Num: 14
Candidate Starts for CalWood4100_29:
(5, 21557), (Start: 14 @21788 has 4 MA's), (26, 21914), (32, 22043), (37, 22115), (41, 22142), (58, 22409),

Gene: Eyoseyas_15 Start: 11463, Stop: 12200, Start Num: 15
Candidate Starts for Eyoseyas_15:
(Start: 15 @11463 has 6 MA's), (16, 11472), (20, 11511), (28, 11604), (31, 11715), (33, 11721), (34, 11763), (37, 11790), (43, 11850), (47, 11877), (50, 11913), (54, 11970), (55, 11976), (62, 12162), (63, 12183),

Gene: FirePit_15 Start: 11463, Stop: 12215, Start Num: 15
Candidate Starts for FirePit_15:
(Start: 15 @11463 has 6 MA's), (16, 11472), (20, 11511), (28, 11604), (31, 11715), (33, 11721), (34, 11763), (37, 11790), (38, 11796), (43, 11850), (47, 11877), (48, 11892), (50, 11913), (51, 11958), (52, 11964), (54, 11985), (62, 12177),

Gene: GalaxyEater_21 Start: 15257, Stop: 15985, Start Num: 9
Candidate Starts for GalaxyEater_21:
(9, 15257), (35, 15671),

Gene: Kels_15 Start: 11388, Stop: 12140, Start Num: 15
Candidate Starts for Kels_15:
(Start: 15 @11388 has 6 MA's), (16, 11397), (20, 11436), (28, 11529), (31, 11640), (33, 11646), (34, 11688), (37, 11715), (38, 11721), (43, 11775), (47, 11802), (48, 11817), (50, 11838), (51, 11883), (52, 11889), (54, 11910), (62, 12102),

Gene: Kharcho_50 Start: 27419, Stop: 28264, Start Num: 7
Candidate Starts for Kharcho_50:
(Start: 7 @27419 has 2 MA's), (17, 27635), (21, 27662), (42, 27968), (46, 27992), (49, 28019),

Gene: Klevey_28 Start: 21798, Stop: 22505, Start Num: 14
Candidate Starts for Klevey_28:
(5, 21567), (Start: 14 @21798 has 4 MA's), (25, 21906), (26, 21924), (37, 22125), (41, 22152), (58, 22416),

Gene: Kovu_72 Start: 45436, Stop: 46323, Start Num: 6
Candidate Starts for Kovu_72:
(Start: 6 @45436 has 2 MA's), (8, 45463), (12, 45544), (13, 45562), (18, 45670), (22, 45694), (24, 45739), (30, 45811), (32, 45886), (39, 45964), (40, 45967), (46, 46018), (49, 46045), (56, 46198), (57, 46222), (59, 46255), (60, 46264), (61, 46279),

Gene: Lilmac1015_29 Start: 21788, Stop: 22498, Start Num: 14
Candidate Starts for Lilmac1015_29:
(5, 21557), (Start: 14 @21788 has 4 MA's), (26, 21914), (32, 22043), (37, 22115), (41, 22142), (58, 22409),

Gene: Ottawa_50 Start: 27417, Stop: 28262, Start Num: 7
Candidate Starts for Ottawa_50:
(Start: 7 @27417 has 2 MA's), (17, 27633), (21, 27660), (42, 27966), (46, 27990), (49, 28017),

Gene: Prairie_27 Start: 21816, Stop: 22526, Start Num: 14
Candidate Starts for Prairie_27:
(5, 21585), (Start: 14 @21816 has 4 MA's), (25, 21924), (26, 21942), (37, 22143), (41, 22170), (58, 22437),

Gene: SerialPhiller_15 Start: 11463, Stop: 12200, Start Num: 15
Candidate Starts for SerialPhiller_15:
(Start: 15 @11463 has 6 MA's), (16, 11472), (20, 11511), (28, 11604), (31, 11715), (33, 11721), (34, 11763), (37, 11790), (43, 11850), (47, 11877), (50, 11913), (54, 11970), (55, 11976), (62, 12162), (63, 12183),

Gene: StrawberryLem_15 Start: 11388, Stop: 12125, Start Num: 15
Candidate Starts for StrawberryLem_15:
(Start: 15 @11388 has 6 MA's), (16, 11397), (20, 11436), (28, 11529), (31, 11640), (33, 11646), (34, 11688), (37, 11715), (43, 11775), (47, 11802), (50, 11838), (54, 11895), (55, 11901), (62, 12087), (63, 12108),

Gene: Ximeno_15 Start: 11463, Stop: 12215, Start Num: 15
Candidate Starts for Ximeno_15:
(Start: 15 @11463 has 6 MA's), (16, 11472), (20, 11511), (28, 11604), (31, 11715), (33, 11721), (34, 11763), (37, 11790), (38, 11796), (43, 11850), (47, 11877), (48, 11892), (50, 11913), (51, 11958), (52, 11964), (54, 11985), (62, 12177),