Pham 223691


1: Coral_68
2: OtsoOtso_75 + 1
3: Kuleana_71
4: Amelia_67
5: RedFox_68
6: StuartMinion_61
7: Rattail_67

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 223691 Report

This analysis was run 03/28/25 on database version 593.

Pham number 223691 has 8 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Coral_68
• Track 2 : OtsoOtso_75, Polka_66
• Track 3 : Kuleana_71
• Track 4 : Amelia_67
• Track 5 : RedFox_68
• Track 6 : StuartMinion_61
• Track 7 : Rattail_67

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

The start number called the most often in the published annotations is 16, it was called in 4 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amelia_67, Coral_68, Kuleana_71, OtsoOtso_75, Polka_66,

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

Genes that do not have the "Most Annotated" start:
• Rattail_67, RedFox_68, StuartMinion_61,

Summary by start number:

Start 15:
• Found in 3 of 8 (37.5%) of genes in pham
• Manual Annotations of this start: 1 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rattail_67 (AS3), RedFox_68 (AS3), StuartMinion_61 (AS3),

Start 16:
• Found in 5 of 8 (62.5%) of genes in pham
• Manual Annotations of this start: 4 of 5

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amelia_67 (AS2), Coral_68 (AS2), Kuleana_71 (AS2), OtsoOtso_75 (AS2), Polka_66 (AS2),

Summary by clusters:

There are 2 clusters represented in this pham: AS3, AS2,

Info for manual annotations of cluster AS2:
•Start number 16 was manually annotated 4 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 15 was manually annotated 1 time for cluster AS3.

Gene Information:

Gene: Amelia_67 Start: 36849, Stop: 36971, Start Num: 16
Candidate Starts for Amelia_67:
(6, 36762), (8, 36777), (9, 36789), (11, 36813), (12, 36816), (Start: 16 @36849 has 4 MA's), (18, 36879), (20, 36900), (21, 36921), (22, 36936), (23, 36942),

Gene: Coral_68 Start: 37035, Stop: 37154, Start Num: 16
Candidate Starts for Coral_68:
(6, 36948), (8, 36963), (9, 36975), (11, 36999), (Start: 16 @37035 has 4 MA's), (23, 37128),

Gene: Kuleana_71 Start: 37549, Stop: 37671, Start Num: 16
Candidate Starts for Kuleana_71:
(6, 37459), (7, 37468), (8, 37474), (11, 37510), (Start: 16 @37549 has 4 MA's), (17, 37573), (18, 37579), (24, 37660),

Gene: OtsoOtso_75 Start: 36577, Stop: 36696, Start Num: 16
Candidate Starts for OtsoOtso_75:
(Start: 16 @36577 has 4 MA's), (23, 36670),

Gene: Polka_66 Start: 36577, Stop: 36696, Start Num: 16
Candidate Starts for Polka_66:
(Start: 16 @36577 has 4 MA's), (23, 36670),

Gene: Rattail_67 Start: 37721, Stop: 37858, Start Num: 15
Candidate Starts for Rattail_67:
(13, 37712), (14, 37715), (Start: 15 @37721 has 1 MA's), (19, 37778), (20, 37784), (23, 37829), (24, 37847),

Gene: RedFox_68 Start: 37646, Stop: 37783, Start Num: 15
Candidate Starts for RedFox_68:
(13, 37637), (14, 37640), (Start: 15 @37646 has 1 MA's), (19, 37703), (23, 37754), (24, 37772),

Gene: StuartMinion_61 Start: 34010, Stop: 34144, Start Num: 15
Candidate Starts for StuartMinion_61:
(1, 33719), (2, 33740), (3, 33791), (4, 33794), (5, 33899), (6, 33920), (7, 33929), (10, 33971), (13, 34001), (14, 34004), (Start: 15 @34010 has 1 MA's), (19, 34067), (23, 34115), (24, 34133),