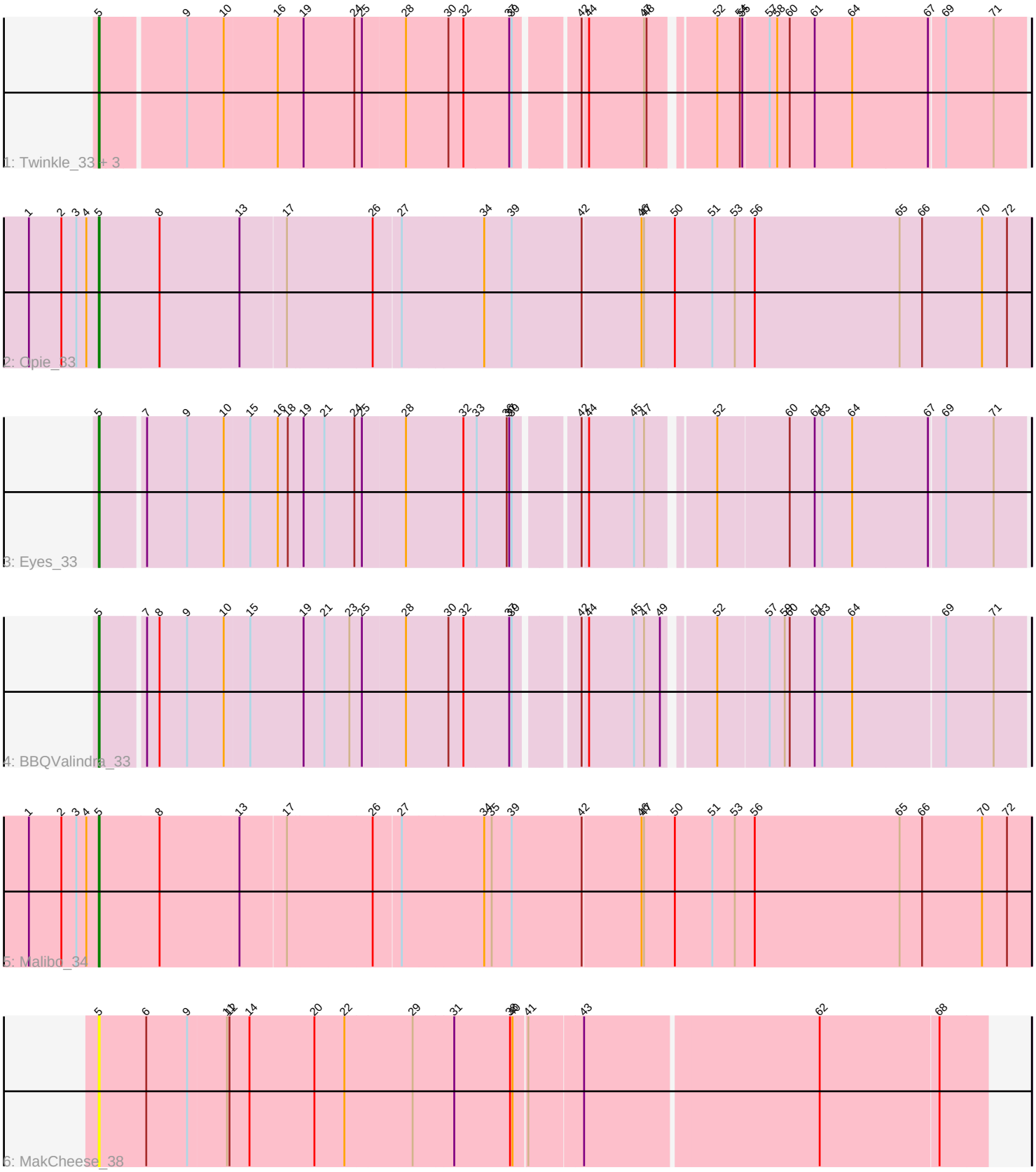
Pham 309857


1: Twinkle_33 + 3
2: Opie_33
3: Eyes_33
4: BBQValindra_33
5: Malibo_34
6: MakCheese_38

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 309857 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309857 has 9 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Twinkle_33, Shlim410_33, Hortense_34, Howe_34
• Track 2 : Opie_33
• Track 3 : Eyes_33
• Track 4 : BBQValindra_33
• Track 5 : Malibo_34
• Track 6 : MakCheese_38

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

The start number called the most often in the published annotations is 5, it was called in 8 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BBQValindra_33, Eyes_33, Hortense_34, Howe_34, MakCheese_38, Malibo_34, Opie_33, Shlim410_33, Twinkle_33,

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

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

Summary by start number:

Start 5:
• Found in 9 of 9 (100.0%) of genes in pham
• Manual Annotations of this start: 8 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BBQValindra_33 (DB), Eyes_33 (DB), Hortense_34 (CZ4), Howe_34 (CZ4), MakCheese_38 (DW), Malibo_34 (DW), Opie_33 (DB), Shlim410_33 (CZ4), Twinkle_33 (CZ4),

Summary by clusters:

There are 3 clusters represented in this pham: DW, DB, CZ4,

Info for manual annotations of cluster CZ4:
•Start number 5 was manually annotated 4 times for cluster CZ4.

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

Info for manual annotations of cluster DW:
•Start number 5 was manually annotated 1 time for cluster DW.

Gene Information:

Gene: BBQValindra_33 Start: 28814, Stop: 27768, Start Num: 5
Candidate Starts for BBQValindra_33:
(Start: 5 @28814 has 8 MA's), (7, 28766), (8, 28751), (9, 28718), (10, 28676), (15, 28646), (19, 28583), (21, 28559), (23, 28529), (25, 28514), (28, 28463), (30, 28412), (32, 28394), (37, 28340), (39, 28337), (42, 28271), (44, 28265), (45, 28211), (47, 28199), (49, 28181), (52, 28130), (57, 28070), (59, 28052), (60, 28046), (61, 28016), (63, 28007), (64, 27971), (69, 27863), (71, 27806),

Gene: Eyes_33 Start: 29318, Stop: 28272, Start Num: 5
Candidate Starts for Eyes_33:
(Start: 5 @29318 has 8 MA's), (7, 29270), (9, 29222), (10, 29180), (15, 29150), (16, 29117), (18, 29105), (19, 29087), (21, 29063), (24, 29027), (25, 29018), (28, 28967), (32, 28898), (33, 28883), (36, 28847), (37, 28844), (39, 28841), (42, 28775), (44, 28769), (45, 28715), (47, 28703), (52, 28634), (60, 28550), (61, 28520), (63, 28511), (64, 28475), (67, 28385), (69, 28367), (71, 28310),

Gene: Hortense_34 Start: 29995, Stop: 28949, Start Num: 5
Candidate Starts for Hortense_34:
(Start: 5 @29995 has 8 MA's), (9, 29899), (10, 29857), (16, 29794), (19, 29764), (24, 29704), (25, 29695), (28, 29644), (30, 29593), (32, 29575), (37, 29521), (39, 29518), (42, 29452), (44, 29446), (47, 29380), (48, 29377), (52, 29311), (54, 29284), (55, 29281), (57, 29251), (58, 29242), (60, 29227), (61, 29197), (64, 29152), (67, 29062), (69, 29044), (71, 28987),

Gene: Howe_34 Start: 29995, Stop: 28949, Start Num: 5
Candidate Starts for Howe_34:
(Start: 5 @29995 has 8 MA's), (9, 29899), (10, 29857), (16, 29794), (19, 29764), (24, 29704), (25, 29695), (28, 29644), (30, 29593), (32, 29575), (37, 29521), (39, 29518), (42, 29452), (44, 29446), (47, 29380), (48, 29377), (52, 29311), (54, 29284), (55, 29281), (57, 29251), (58, 29242), (60, 29227), (61, 29197), (64, 29152), (67, 29062), (69, 29044), (71, 28987),

Gene: MakCheese_38 Start: 30835, Stop: 29801, Start Num: 5
Candidate Starts for MakCheese_38:
(Start: 5 @30835 has 8 MA's), (6, 30778), (9, 30730), (11, 30685), (12, 30682), (14, 30658), (20, 30580), (22, 30544), (29, 30466), (31, 30418), (38, 30352), (40, 30349), (41, 30334), (43, 30271), (62, 29998), (68, 29857),

Gene: Malibo_34 Start: 28076, Stop: 26979, Start Num: 5
Candidate Starts for Malibo_34:
(1, 28160), (2, 28121), (3, 28103), (4, 28091), (Start: 5 @28076 has 8 MA's), (8, 28004), (13, 27911), (17, 27857), (26, 27758), (27, 27728), (34, 27632), (35, 27623), (39, 27599), (42, 27515), (46, 27446),

(47, 27443), (50, 27407), (51, 27362), (53, 27335), (56, 27311), (65, 27137), (66, 27110), (70, 27038), (72, 27008),

Gene: Opie_33 Start: 28526, Stop: 27429, Start Num: 5
Candidate Starts for Opie_33:
(1, 28610), (2, 28571), (3, 28553), (4, 28541), (Start: 5 @28526 has 8 MA's), (8, 28454), (13, 28361), (17, 28307), (26, 28208), (27, 28178), (34, 28082), (39, 28049), (42, 27965), (46, 27896), (47, 27893), (50, 27857), (51, 27812), (53, 27785), (56, 27761), (65, 27587), (66, 27560), (70, 27488), (72, 27458),

Gene: Shlim410_33 Start: 29995, Stop: 28949, Start Num: 5
Candidate Starts for Shlim410_33:
(Start: 5 @29995 has 8 MA's), (9, 29899), (10, 29857), (16, 29794), (19, 29764), (24, 29704), (25, 29695), (28, 29644), (30, 29593), (32, 29575), (37, 29521), (39, 29518), (42, 29452), (44, 29446), (47, 29380), (48, 29377), (52, 29311), (54, 29284), (55, 29281), (57, 29251), (58, 29242), (60, 29227), (61, 29197), (64, 29152), (67, 29062), (69, 29044), (71, 28987),

Gene: Twinkle_33 Start: 31054, Stop: 30008, Start Num: 5
Candidate Starts for Twinkle_33:
(Start: 5 @31054 has 8 MA's), (9, 30958), (10, 30916), (16, 30853), (19, 30823), (24, 30763), (25, 30754), (28, 30703), (30, 30652), (32, 30634), (37, 30580), (39, 30577), (42, 30511), (44, 30505), (47, 30439), (48, 30436), (52, 30370), (54, 30343), (55, 30340), (57, 30310), (58, 30301), (60, 30286), (61, 30256), (64, 30211), (67, 30121), (69, 30103), (71, 30046),