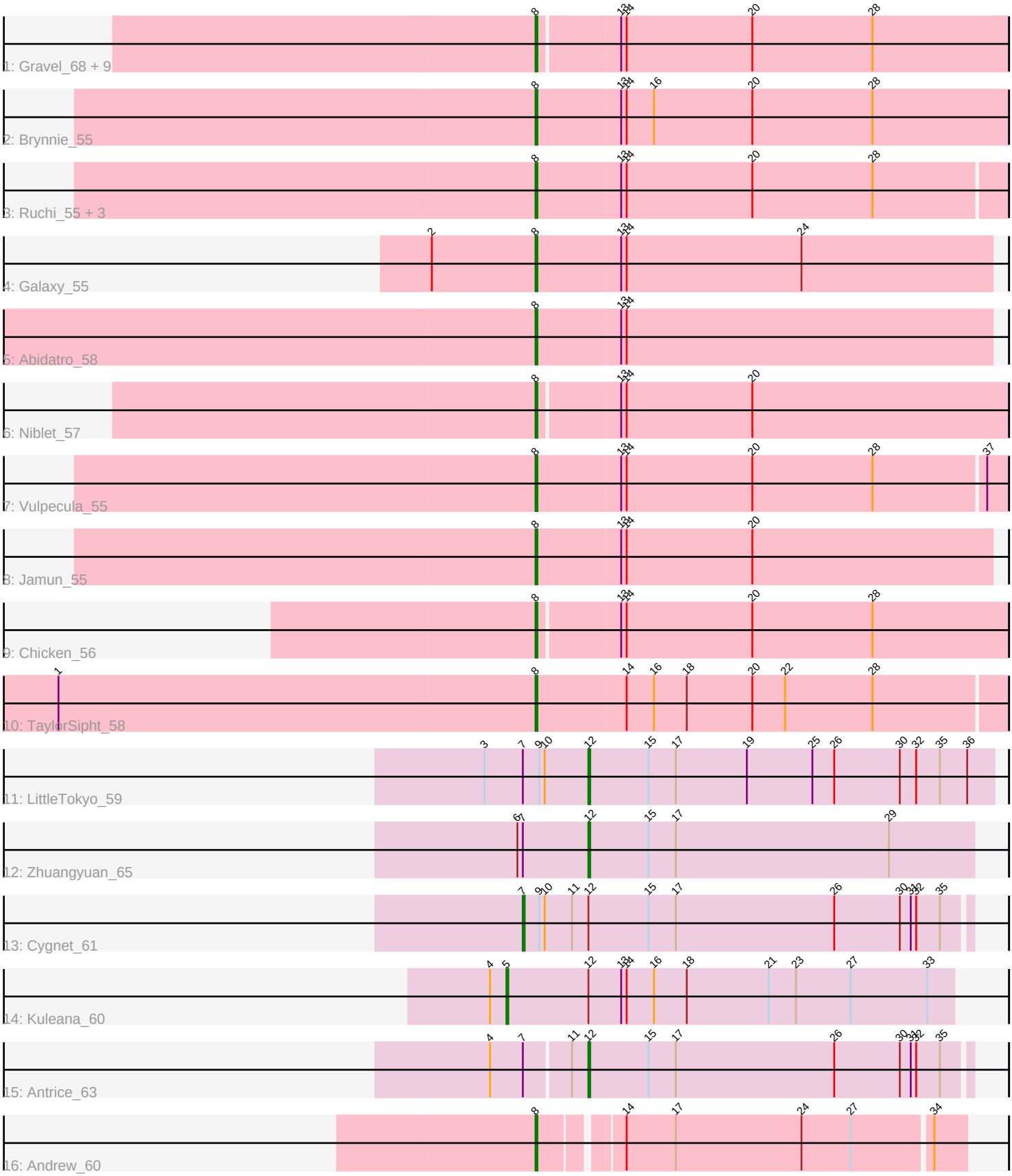
Pham 309077


1: Gravel_68 + 9
2: Brynnie_55
3: Ruchi_55 + 3
4: Galaxy_55
5: Abidatro_58
6: Niblet_57
7: Vulpecula_55
8: Jamun_55
9: Chicken_56
10: TaylorSipht_58
11: LittleTokyo_59
12: Zhuangyuan_65
13: Cygnet_61
14: Kuleana_60
15: Antrice_63
16: Andrew_60

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 309077 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309077 has 28 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Gravel_68, Toad24_59, Westrich_67, Zixiang_56, Eesa_56, Shen_56, Orcanus_57, Pelletreau_68, Amanises_59, KendraB23_67
• Track 2 : Brynnie_55
• Track 3 : Ruchi_55, WileyE_57, Basilisk_56, Chickaboom_57
• Track 4 : Galaxy_55
• Track 5 : Abidatro_58
• Track 6 : Niblet_57
• Track 7 : Vulpecula_55
• Track 8 : Jamun_55
• Track 9 : Chicken_56
• Track 10 : TaylorSipht_58
• Track 11 : LittleTokyo_59
• Track 12 : Zhuangyuan_65
• Track 13 : Cygnet_61
• Track 14 : Kuleana_60
• Track 15 : Antrice_63
• Track 16 : Andrew_60

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

The start number called the most often in the published annotations is 8, it was called in 18 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abidatro_58, Amanises_59, Andrew_60, Basilisk_56, Brynnie_55, Chickaboom_57, Chicken_56, Eesa_56, Galaxy_55, Gravel_68, Jamun_55, KendraB23_67, Niblet_57, Orcanus_57, Pelletreau_68, Ruchi_55, Shen_56, TaylorSipht_58, Toad24_59, Vulpecula_55, Westrich_67, WileyE_57, Zixiang_56,

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

Genes that do not have the "Most Annotated" start:
• Antrice_63, Cygnet_61, Kuleana_60, LittleTokyo_59, Zhuangyuan_65,

Summary by start number:

Start 5:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kuleana_60 (AS2),

Start 7:
• Found in 4 of 28 (14.3%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Cygnet_61 (AS2),

Start 8:
• Found in 23 of 28 (82.1%) of genes in pham
• Manual Annotations of this start: 18 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abidatro_58 (AS1), Amanises_59 (AS1), Andrew_60 (AS3), Basilisk_56 (AS1), Brynnie_55 (AS1), Chickaboom_57 (AS1), Chicken_56 (AS1), Eesa_56 (AS1), Galaxy_55 (AS1), Gravel_68 (AS1), Jamun_55 (AS1), KendraB23_67 (AS1), Niblet_57 (AS1), Orcanus_57 (AS1), Pelletreau_68 (AS1), Ruchi_55 (AS1), Shen_56 (AS1), TaylorSipht_58 (AS1), Toad24_59 (AS1), Vulpecula_55 (AS1), Westrich_67 (AS1), WileyE_57 (AS1), Zixiang_56 (AS1),

Start 12:
• Found in 5 of 28 (17.9%) of genes in pham
• Manual Annotations of this start: 3 of 23
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Antrice_63 (AS2), LittleTokyo_59 (AS2), Zhuangyuan_65 (AS2),

Summary by clusters:

There are 3 clusters represented in this pham: AS3, AS2, AS1,

Info for manual annotations of cluster AS1:
•Start number 8 was manually annotated 17 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 5 was manually annotated 1 time for cluster AS2.
•Start number 7 was manually annotated 1 time for cluster AS2.
•Start number 12 was manually annotated 3 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 8 was manually annotated 1 time for cluster AS3.

Gene Information:

Gene: Abidatro_58 Start: 36371, Stop: 36619, Start Num: 8

Candidate Starts for Abidatro_58:
(Start: 8 @36371 has 18 MA's), (13, 36416), (14, 36419),

Gene: Amanises_59 Start: 36972, Stop: 37226, Start Num: 8
Candidate Starts for Amanises_59:
(Start: 8 @36972 has 18 MA's), (13, 37014), (14, 37017), (20, 37086), (28, 37152),

Gene: Andrew_60 Start: 35558, Stop: 35779, Start Num: 8
Candidate Starts for Andrew_60:
(Start: 8 @35558 has 18 MA's), (14, 35597), (17, 35624), (24, 35693), (27, 35720), (34, 35762),

Gene: Antrice_63 Start: 36019, Stop: 36225, Start Num: 12
Candidate Starts for Antrice_63:
(4, 35968), (Start: 7 @35986 has 1 MA's), (11, 36010), (Start: 12 @36019 has 3 MA's), (15, 36052), (17, 36067), (26, 36154), (30, 36190), (31, 36196), (32, 36199), (35, 36211),

Gene: Basilisk_56 Start: 35598, Stop: 35852, Start Num: 8
Candidate Starts for Basilisk_56:
(Start: 8 @35598 has 18 MA's), (13, 35643), (14, 35646), (20, 35715), (28, 35781),

Gene: Brynnie_55 Start: 35493, Stop: 35750, Start Num: 8
Candidate Starts for Brynnie_55:
(Start: 8 @35493 has 18 MA's), (13, 35538), (14, 35541), (16, 35556), (20, 35610), (28, 35676),

Gene: Chickaboom_57 Start: 35934, Stop: 36188, Start Num: 8
Candidate Starts for Chickaboom_57:
(Start: 8 @35934 has 18 MA's), (13, 35979), (14, 35982), (20, 36051), (28, 36117),

Gene: Chicken_56 Start: 36286, Stop: 36540, Start Num: 8
Candidate Starts for Chicken_56:
(Start: 8 @36286 has 18 MA's), (13, 36328), (14, 36331), (20, 36400), (28, 36466),

Gene: Cygnet_61 Start: 36470, Stop: 36712, Start Num: 7
Candidate Starts for Cygnet_61:
(Start: 7 @36470 has 1 MA's), (9, 36479), (10, 36482), (11, 36497), (Start: 12 @36506 has 3 MA's), (15, 36539), (17, 36554), (26, 36641), (30, 36677), (31, 36683), (32, 36686), (35, 36698),

Gene: Eesa_56 Start: 36713, Stop: 36967, Start Num: 8
Candidate Starts for Eesa_56:
(Start: 8 @36713 has 18 MA's), (13, 36755), (14, 36758), (20, 36827), (28, 36893),

Gene: Galaxy_55 Start: 34788, Stop: 35036, Start Num: 8
Candidate Starts for Galaxy_55:
(2, 34731), (Start: 8 @34788 has 18 MA's), (13, 34833), (14, 34836), (24, 34932),

Gene: Gravel_68 Start: 37286, Stop: 37540, Start Num: 8
Candidate Starts for Gravel_68:
(Start: 8 @37286 has 18 MA's), (13, 37328), (14, 37331), (20, 37400), (28, 37466),

Gene: Jamun_55 Start: 36020, Stop: 36268, Start Num: 8
Candidate Starts for Jamun_55:
(Start: 8 @36020 has 18 MA's), (13, 36065), (14, 36068), (20, 36137),

Gene: KendraB23_67 Start: 36974, Stop: 37228, Start Num: 8
Candidate Starts for KendraB23_67:
(Start: 8 @36974 has 18 MA's), (13, 37016), (14, 37019), (20, 37088), (28, 37154),

Gene: Kuleana_60 Start: 35013, Stop: 35258, Start Num: 5
Candidate Starts for Kuleana_60:
(4, 35004), (Start: 5 @35013 has 1 MA's), (Start: 12 @35058 has 3 MA's), (13, 35076), (14, 35079), (16, 35094), (18, 35112), (21, 35157), (23, 35172), (27, 35202), (33, 35244),

Gene: LittleTokyo_59 Start: 34504, Stop: 34725, Start Num: 12
Candidate Starts for LittleTokyo_59:
(3, 34447), (Start: 7 @34468 has 1 MA's), (9, 34477), (10, 34480), (Start: 12 @34504 has 3 MA's), (15, 34537), (17, 34552), (19, 34591), (25, 34627), (26, 34639), (30, 34675), (32, 34684), (35, 34696), (36, 34711),

Gene: Niblet_57 Start: 36583, Stop: 36837, Start Num: 8
Candidate Starts for Niblet_57:
(Start: 8 @36583 has 18 MA's), (13, 36625), (14, 36628), (20, 36697),

Gene: Orcanus_57 Start: 36404, Stop: 36658, Start Num: 8
Candidate Starts for Orcanus_57:
(Start: 8 @36404 has 18 MA's), (13, 36446), (14, 36449), (20, 36518), (28, 36584),

Gene: Pelletreau_68 Start: 37286, Stop: 37540, Start Num: 8
Candidate Starts for Pelletreau_68:
(Start: 8 @37286 has 18 MA's), (13, 37328), (14, 37331), (20, 37400), (28, 37466),

Gene: Ruchi_55 Start: 35520, Stop: 35774, Start Num: 8
Candidate Starts for Ruchi_55:
(Start: 8 @35520 has 18 MA's), (13, 35565), (14, 35568), (20, 35637), (28, 35703),

Gene: Shen_56 Start: 34886, Stop: 35140, Start Num: 8
Candidate Starts for Shen_56:
(Start: 8 @34886 has 18 MA's), (13, 34928), (14, 34931), (20, 35000), (28, 35066),

Gene: TaylorSipht_58 Start: 36199, Stop: 36453, Start Num: 8
Candidate Starts for TaylorSipht_58:
(1, 35938), (Start: 8 @36199 has 18 MA's), (14, 36247), (16, 36262), (18, 36280), (20, 36316), (22, 36334), (28, 36382),

Gene: Toad24_59 Start: 37026, Stop: 37280, Start Num: 8
Candidate Starts for Toad24_59:
(Start: 8 @37026 has 18 MA's), (13, 37068), (14, 37071), (20, 37140), (28, 37206),

Gene: Vulpecula_55 Start: 35180, Stop: 35434, Start Num: 8
Candidate Starts for Vulpecula_55:
(Start: 8 @35180 has 18 MA's), (13, 35225), (14, 35228), (20, 35297), (28, 35363), (37, 35423),

Gene: Westrich_67 Start: 37210, Stop: 37464, Start Num: 8
Candidate Starts for Westrich_67:
(Start: 8 @37210 has 18 MA's), (13, 37252), (14, 37255), (20, 37324), (28, 37390),

Gene: WileyE_57 Start: 35934, Stop: 36188, Start Num: 8

Candidate Starts for WileyE_57:
(Start: 8 @35934 has 18 MA's), (13, 35979), (14, 35982), (20, 36051), (28, 36117),

Gene: Zhuangyuan_65 Start: 36691, Stop: 36900, Start Num: 12
Candidate Starts for Zhuangyuan_65:
(6, 36652), (Start: 7 @36655 has 1 MA's), (Start: 12 @36691 has 3 MA's), (15, 36724), (17, 36739), (29, 36856),

Gene: Zixiang_56 Start: 36390, Stop: 36644, Start Num: 8
Candidate Starts for Zixiang_56:
(Start: 8 @36390 has 18 MA's), (13, 36432), (14, 36435), (20, 36504), (28, 36570),