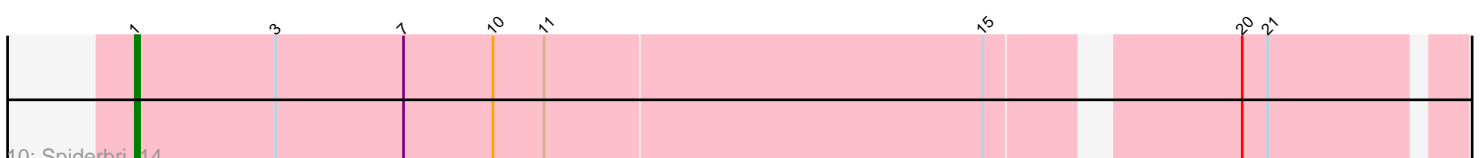
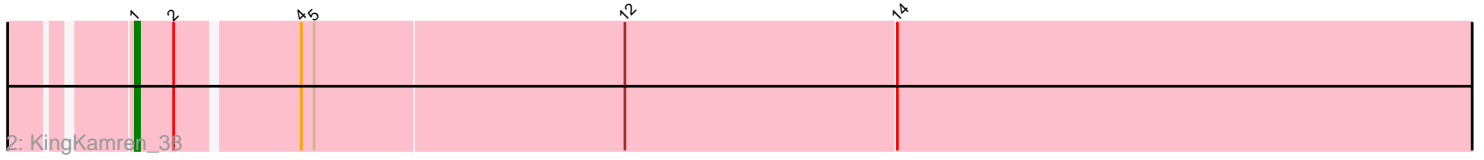
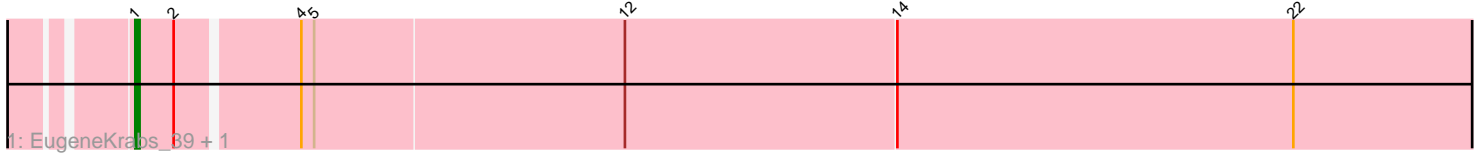


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 309012 Report

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

Pham number 309012 has 32 members, 5 are drafts.

Phages represented in each track:

- Track 1 : EugeneKrabs\_39, Zhengyi\_39
- Track 2 : KingKamren\_38
- Track 3 : JordanFarm\_42, Barroma\_39, Truong\_40, Ashton\_41, AloeVera\_41, ShyRosie\_40, SoilSleuth\_42, Waterlily\_43, Akoni\_40
- Track 4 : Moleficient\_40, RicoCaldo\_40, Phracted\_40, Atraxi\_38, TrippleS\_39, Fullmetal\_40, Pharky\_40, PhriedRice\_41, Phedro\_40, StagePhright\_40
- Track 5 : Astartes\_40
- Track 6 : ThirteenKH\_40, Yafa\_41
- Track 7 : JimmyPG\_40
- Track 8 : Keough\_39, Morrill\_38, Mazun\_41
- Track 9 : Fede\_39, Kosier\_39
- Track 10 : Spiderbri\_14

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

The start number called the most often in the published annotations is 1, it was called in 27 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akoni\_40, AloeVera\_41, Ashton\_41, Astartes\_40, Atraxi\_38, Barroma\_39, EugeneKrabs\_39, Fede\_39, Fullmetal\_40, JimmyPG\_40, JordanFarm\_42, Keough\_39, KingKamren\_38, Kosier\_39, Mazun\_41, Moleficient\_40, Morrill\_38, Pharky\_40, Phedro\_40, Phracted\_40, PhriedRice\_41, RicoCaldo\_40, ShyRosie\_40, SoilSleuth\_42, Spiderbri\_14, StagePhright\_40, ThirteenKH\_40, TrippleS\_39, Truong\_40, Waterlily\_43, Yafa\_41, Zhengyi\_39,

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 1:

- Found in 32 of 32 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 27 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Akoni\_40 (EK2), AloeVera\_41 (EK2), Ashton\_41 (EK2), Astartes\_40 (EK2), Atraxi\_38 (EK2), Barroma\_39 (EK2), EugeneKrabs\_39 (EK), Fede\_39 (EK2), Fullmetal\_40 (EK2), JimmyPG\_40 (EK2), JordanFarm\_42 (EK2), Keough\_39 (EK2), KingKamren\_38 (EK), Kosier\_39 (EK2), Mazun\_41 (EK2), Moleficent\_40 (EK2), Morrill\_38 (EK2), Pharky\_40 (EK2), Phedro\_40 (EK2), Phracted\_40 (EK2), PhriedRice\_41 (EK2), RicoCaldo\_40 (EK2), ShyRosie\_40 (EK2), SoilSleuth\_42 (EK2), Spiderbri\_14 (GK), StagePhright\_40 (EK2), ThirteenKH\_40 (EK2), TrippleS\_39 (EK2), Truong\_40 (EK2), Waterlily\_43 (EK2), Yafa\_41 (EK2), Zhengyi\_39 (EK),

#### Summary by clusters:

There are 3 clusters represented in this pham: GK, EK2, EK,

Info for manual annotations of cluster EK:

- Start number 1 was manually annotated 3 times for cluster EK.

Info for manual annotations of cluster EK2:

- Start number 1 was manually annotated 23 times for cluster EK2.

Info for manual annotations of cluster GK:

- Start number 1 was manually annotated 1 time for cluster GK.

#### Gene Information:

Gene: Akoni\_40 Start: 41418, Stop: 41741, Start Num: 1

Candidate Starts for Akoni\_40:

(Start: 1 @41418 has 27 MA's), (2, 41427), (9, 41490),

Gene: AloeVera\_41 Start: 41632, Stop: 41955, Start Num: 1

Candidate Starts for AloeVera\_41:

(Start: 1 @41632 has 27 MA's), (2, 41641), (9, 41704),

Gene: Ashton\_41 Start: 41631, Stop: 41954, Start Num: 1

Candidate Starts for Ashton\_41:

(Start: 1 @41631 has 27 MA's), (2, 41640), (9, 41703),

Gene: Astartes\_40 Start: 41160, Stop: 41483, Start Num: 1

Candidate Starts for Astartes\_40:

(Start: 1 @41160 has 27 MA's), (2, 41169), (9, 41232), (12, 41271),

Gene: Atraxi\_38 Start: 40952, Stop: 41275, Start Num: 1

Candidate Starts for Atraxi\_38:

(Start: 1 @40952 has 27 MA's), (2, 40961), (9, 41024), (12, 41063), (16, 41156),

Gene: Barroma\_39 Start: 41420, Stop: 41743, Start Num: 1

Candidate Starts for Barroma\_39:

(Start: 1 @41420 has 27 MA's), (2, 41429), (9, 41492),

Gene: EugeneKrabs\_39 Start: 42566, Stop: 42886, Start Num: 1

Candidate Starts for EugeneKrabs\_39:

(Start: 1 @42566 has 27 MA's), (2, 42575), (4, 42602), (5, 42605), (12, 42677), (14, 42740), (22, 42833),

Gene: Fede\_39 Start: 40176, Stop: 40487, Start Num: 1

Candidate Starts for Fede\_39:

(Start: 1 @40176 has 27 MA's), (2, 40185), (6, 40227), (12, 40287), (13, 40329), (17, 40383), (18, 40413), (23, 40443),

Gene: Fullmetal\_40 Start: 41534, Stop: 41857, Start Num: 1

Candidate Starts for Fullmetal\_40:

(Start: 1 @41534 has 27 MA's), (2, 41543), (9, 41606), (12, 41645), (16, 41738),

Gene: JimmyPG\_40 Start: 41855, Stop: 42175, Start Num: 1

Candidate Starts for JimmyPG\_40:

(Start: 1 @41855 has 27 MA's), (2, 41864), (4, 41891), (7, 41915), (8, 41921), (9, 41927), (13, 42008), (18, 42101), (19, 42104), (24, 42134),

Gene: JordanFarm\_42 Start: 41632, Stop: 41955, Start Num: 1

Candidate Starts for JordanFarm\_42:

(Start: 1 @41632 has 27 MA's), (2, 41641), (9, 41704),

Gene: Keough\_39 Start: 41290, Stop: 41613, Start Num: 1

Candidate Starts for Keough\_39:

(Start: 1 @41290 has 27 MA's), (2, 41299), (9, 41362), (12, 41401), (16, 41494),

Gene: KingKamren\_38 Start: 42520, Stop: 42840, Start Num: 1

Candidate Starts for KingKamren\_38:

(Start: 1 @42520 has 27 MA's), (2, 42529), (4, 42556), (5, 42559), (12, 42631), (14, 42694),

Gene: Kosier\_39 Start: 40123, Stop: 40434, Start Num: 1

Candidate Starts for Kosier\_39:

(Start: 1 @40123 has 27 MA's), (2, 40132), (6, 40174), (12, 40234), (13, 40276), (17, 40330), (18, 40360), (23, 40390),

Gene: Mazun\_41 Start: 41879, Stop: 42202, Start Num: 1

Candidate Starts for Mazun\_41:

(Start: 1 @41879 has 27 MA's), (2, 41888), (9, 41951), (12, 41990), (16, 42083),

Gene: Moleficient\_40 Start: 41541, Stop: 41864, Start Num: 1

Candidate Starts for Moleficient\_40:

(Start: 1 @41541 has 27 MA's), (2, 41550), (9, 41613), (12, 41652), (16, 41745),

Gene: Morrill\_38 Start: 40932, Stop: 41255, Start Num: 1

Candidate Starts for Morrill\_38:

(Start: 1 @40932 has 27 MA's), (2, 40941), (9, 41004), (12, 41043), (16, 41136),

Gene: Pharky\_40 Start: 41537, Stop: 41860, Start Num: 1

Candidate Starts for Pharky\_40:

(Start: 1 @41537 has 27 MA's), (2, 41546), (9, 41609), (12, 41648), (16, 41741),

Gene: Phedro\_40 Start: 41537, Stop: 41860, Start Num: 1  
Candidate Starts for Phedro\_40:  
(Start: 1 @41537 has 27 MA's), (2, 41546), (9, 41609), (12, 41648), (16, 41741),

Gene: Phractured\_40 Start: 41537, Stop: 41860, Start Num: 1  
Candidate Starts for Phractured\_40:  
(Start: 1 @41537 has 27 MA's), (2, 41546), (9, 41609), (12, 41648), (16, 41741),

Gene: PhriedRice\_41 Start: 41641, Stop: 41964, Start Num: 1  
Candidate Starts for PhriedRice\_41:  
(Start: 1 @41641 has 27 MA's), (2, 41650), (9, 41713), (12, 41752), (16, 41845),

Gene: RicoCaldo\_40 Start: 41619, Stop: 41942, Start Num: 1  
Candidate Starts for RicoCaldo\_40:  
(Start: 1 @41619 has 27 MA's), (2, 41628), (9, 41691), (12, 41730), (16, 41823),

Gene: ShyRosie\_40 Start: 41640, Stop: 41963, Start Num: 1  
Candidate Starts for ShyRosie\_40:  
(Start: 1 @41640 has 27 MA's), (2, 41649), (9, 41712),

Gene: SoilSleuth\_42 Start: 41462, Stop: 41785, Start Num: 1  
Candidate Starts for SoilSleuth\_42:  
(Start: 1 @41462 has 27 MA's), (2, 41471), (9, 41534),

Gene: Spiderbri\_14 Start: 13819, Stop: 14115, Start Num: 1  
Candidate Starts for Spiderbri\_14:  
(Start: 1 @13819 has 27 MA's), (3, 13852), (7, 13882), (10, 13903), (11, 13915), (15, 14017), (20, 14068), (21, 14074),

Gene: StagePhright\_40 Start: 41537, Stop: 41860, Start Num: 1  
Candidate Starts for StagePhright\_40:  
(Start: 1 @41537 has 27 MA's), (2, 41546), (9, 41609), (12, 41648), (16, 41741),

Gene: ThirteenKH\_40 Start: 40942, Stop: 41265, Start Num: 1  
Candidate Starts for ThirteenKH\_40:  
(Start: 1 @40942 has 27 MA's), (2, 40951), (9, 41014), (12, 41053),

Gene: TrippleS\_39 Start: 41091, Stop: 41414, Start Num: 1  
Candidate Starts for TrippleS\_39:  
(Start: 1 @41091 has 27 MA's), (2, 41100), (9, 41163), (12, 41202), (16, 41295),

Gene: Truong\_40 Start: 41420, Stop: 41743, Start Num: 1  
Candidate Starts for Truong\_40:  
(Start: 1 @41420 has 27 MA's), (2, 41429), (9, 41492),

Gene: Waterlily\_43 Start: 41674, Stop: 41997, Start Num: 1  
Candidate Starts for Waterlily\_43:  
(Start: 1 @41674 has 27 MA's), (2, 41683), (9, 41746),

Gene: Yafa\_41 Start: 40846, Stop: 41169, Start Num: 1  
Candidate Starts for Yafa\_41:  
(Start: 1 @40846 has 27 MA's), (2, 40855), (9, 40918), (12, 40957),

Gene: Zhengyi\_39 Start: 42615, Stop: 42935, Start Num: 1

Candidate Starts for Zhengyi\_39:

(Start: 1 @42615 has 27 MA's), (2, 42624), (4, 42651), (5, 42654), (12, 42726), (14, 42789), (22, 42882),