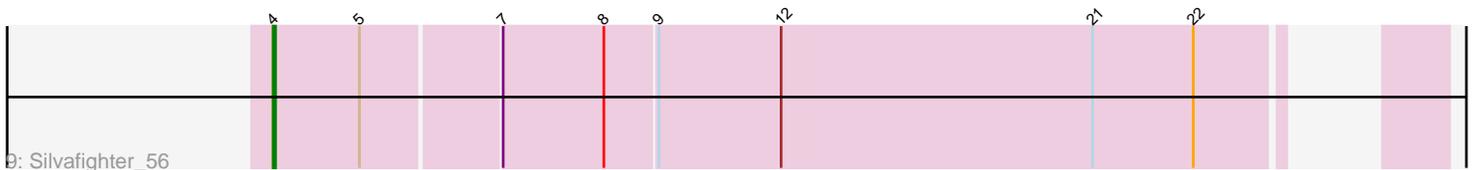
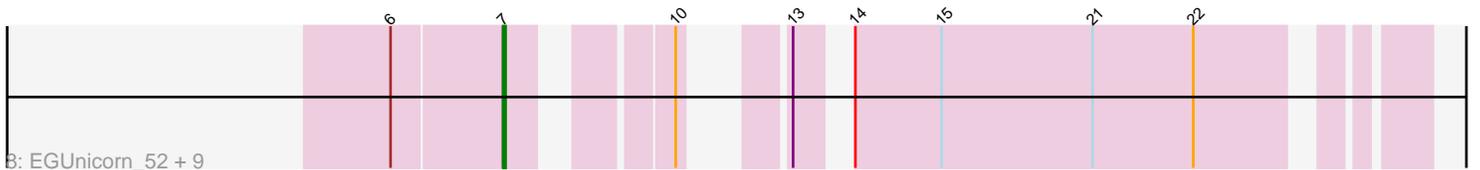
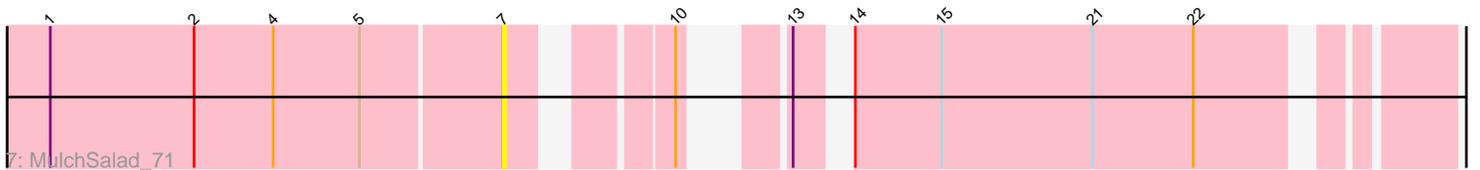
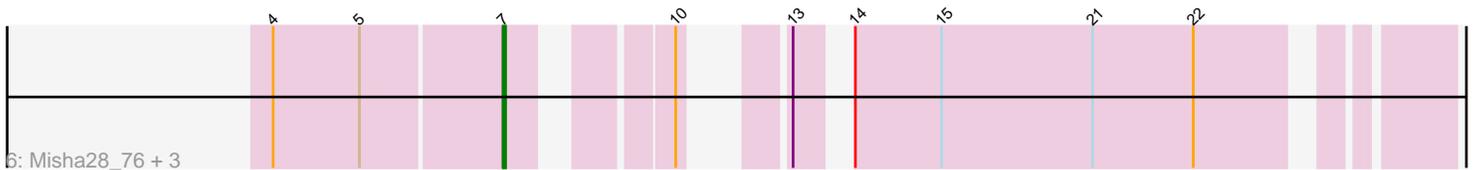
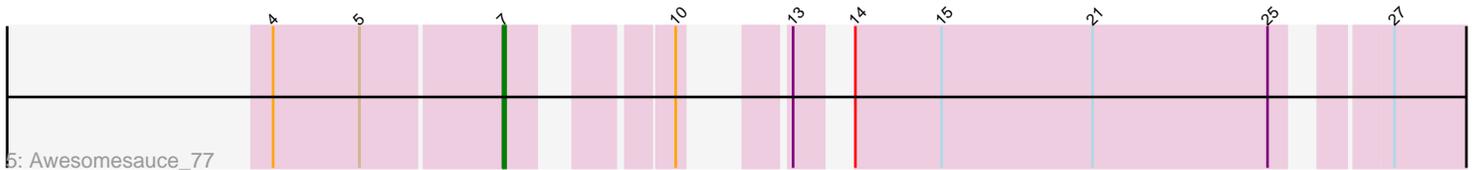
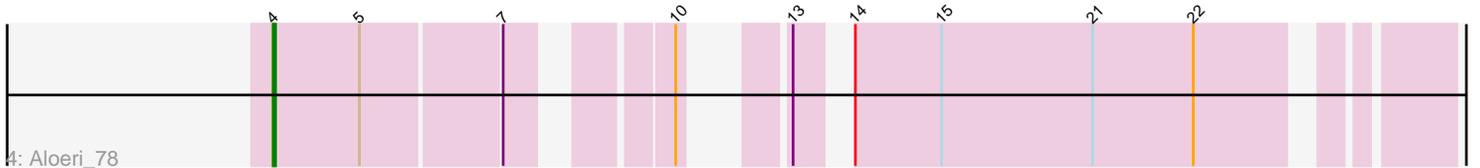
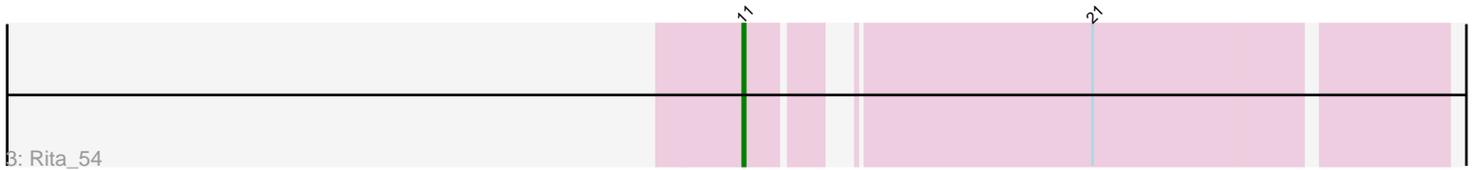
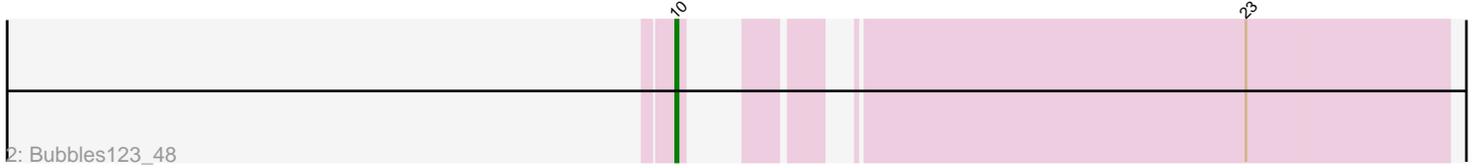
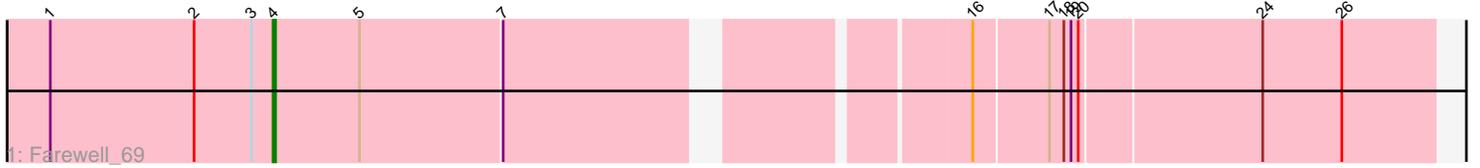


# Pham 284189



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 284189 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284189 has 21 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Farewell\_69
- Track 2 : Bubbles123\_48
- Track 3 : Rita\_54
- Track 4 : Aloeri\_78
- Track 5 : Awesomesauce\_77
- Track 6 : Misha28\_76, Fulbright\_54, TootsiePop\_76, ChickenDinner\_77
- Track 7 : MulchSalad\_71
- Track 8 : EGUnicorn\_52, Carcharodon\_56, Parmesanjohn\_56, Schnauzer\_57, Pipsqueaks\_57, Xerxes\_56, Magsby\_56, Phloss\_54, Smurph\_56, Gex\_57
- Track 9 : Silvafighter\_56

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

The start number called the most often in the published annotations is 7, it was called in 15 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Awesomesauce\_77, Carcharodon\_56, ChickenDinner\_77, EGUnicorn\_52, Fulbright\_54, Gex\_57, Magsby\_56, Misha28\_76, MulchSalad\_71, Parmesanjohn\_56, Phloss\_54, Pipsqueaks\_57, Schnauzer\_57, Smurph\_56, TootsiePop\_76, Xerxes\_56,

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

- Aloeri\_78, Farewell\_69, Silvafighter\_56,

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

- Bubbles123\_48, Rita\_54,

### **Summary by start number:**

Start 4:

- Found in 9 of 21 ( 42.9% ) of genes in pham
- Manual Annotations of this start: 3 of 20
- Called 33.3% of time when present

- Phage (with cluster) where this start called: Aloeri\_78 (F1), Farewell\_69 (AF), Silvafighter\_56 (N),

Start 7:

- Found in 19 of 21 ( 90.5% ) of genes in pham
- Manual Annotations of this start: 15 of 20
- Called 84.2% of time when present
- Phage (with cluster) where this start called: Awesomesauce\_77 (F1), Carcharodon\_56 (N), ChickenDinner\_77 (F1), EGUnicorn\_52 (N), Fulbright\_54 (N), Gex\_57 (N), Magsby\_56 (N), Misha28\_76 (F1), MulchSalad\_71 (F7), Parmesanjohn\_56 (N), Phloss\_54 (N), Pipsqueaks\_57 (N), Schnauzer\_57 (N), Smurph\_56 (N), TootsiePop\_76 (F1), Xerxes\_56 (N),

Start 10:

- Found in 18 of 21 ( 85.7% ) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 5.6% of time when present
- Phage (with cluster) where this start called: Bubbles123\_48 (F1),

Start 11:

- Found in 1 of 21 ( 4.8% ) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rita\_54 (F1),

### **Summary by clusters:**

There are 4 clusters represented in this pham: F1, F7, AF, N,

Info for manual annotations of cluster AF:

- Start number 4 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster F1:

- Start number 4 was manually annotated 1 time for cluster F1.
- Start number 7 was manually annotated 4 times for cluster F1.
- Start number 10 was manually annotated 1 time for cluster F1.
- Start number 11 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster N:

- Start number 4 was manually annotated 1 time for cluster N.
- Start number 7 was manually annotated 11 times for cluster N.

### **Gene Information:**

Gene: Aloeri\_78 Start: 48466, Stop: 48867, Start Num: 4

Candidate Starts for Aloeri\_78:

(Start: 4 @48466 has 3 MA's), (5, 48502), (Start: 7 @48556 has 15 MA's), (Start: 10 @48607 has 1 MA's), (13, 48628), (14, 48640), (15, 48676), (21, 48739), (22, 48781),

Gene: Awesomesauce\_77 Start: 48635, Stop: 49000, Start Num: 7

Candidate Starts for Awesomesauce\_77:

(Start: 4 @48545 has 3 MA's), (5, 48581), (Start: 7 @48635 has 15 MA's), (Start: 10 @48686 has 1 MA's), (13, 48707), (14, 48719), (15, 48755), (21, 48818), (25, 48890), (27, 48926),

Gene: Bubbles123\_48 Start: 37249, Stop: 37524, Start Num: 10

Candidate Starts for Bubbles123\_48:

(Start: 10 @37249 has 1 MA's), (23, 37441),

Gene: Carcharodon\_56 Start: 36662, Stop: 36964, Start Num: 7

Candidate Starts for Carcharodon\_56:

(6, 36617), (Start: 7 @36662 has 15 MA's), (Start: 10 @36713 has 1 MA's), (13, 36734), (14, 36746), (15, 36782), (21, 36845), (22, 36887),

Gene: ChickenDinner\_77 Start: 48556, Stop: 48867, Start Num: 7

Candidate Starts for ChickenDinner\_77:

(Start: 4 @48466 has 3 MA's), (5, 48502), (Start: 7 @48556 has 15 MA's), (Start: 10 @48607 has 1 MA's), (13, 48628), (14, 48640), (15, 48676), (21, 48739), (22, 48781),

Gene: EGUunicorn\_52 Start: 35499, Stop: 35801, Start Num: 7

Candidate Starts for EGUunicorn\_52:

(6, 35454), (Start: 7 @35499 has 15 MA's), (Start: 10 @35550 has 1 MA's), (13, 35571), (14, 35583), (15, 35619), (21, 35682), (22, 35724),

Gene: Farewell\_69 Start: 47142, Stop: 47591, Start Num: 4

Candidate Starts for Farewell\_69:

(1, 47049), (2, 47109), (3, 47133), (Start: 4 @47142 has 3 MA's), (5, 47178), (Start: 7 @47235 has 15 MA's), (16, 47406), (17, 47436), (18, 47442), (19, 47445), (20, 47448), (24, 47520), (26, 47553),

Gene: Fulbright\_54 Start: 35356, Stop: 35658, Start Num: 7

Candidate Starts for Fulbright\_54:

(Start: 4 @35266 has 3 MA's), (5, 35302), (Start: 7 @35356 has 15 MA's), (Start: 10 @35407 has 1 MA's), (13, 35428), (14, 35440), (15, 35476), (21, 35539), (22, 35581),

Gene: Gex\_57 Start: 36678, Stop: 36980, Start Num: 7

Candidate Starts for Gex\_57:

(6, 36633), (Start: 7 @36678 has 15 MA's), (Start: 10 @36729 has 1 MA's), (13, 36750), (14, 36762), (15, 36798), (21, 36861), (22, 36903),

Gene: Magsby\_56 Start: 36679, Stop: 36981, Start Num: 7

Candidate Starts for Magsby\_56:

(6, 36634), (Start: 7 @36679 has 15 MA's), (Start: 10 @36730 has 1 MA's), (13, 36751), (14, 36763), (15, 36799), (21, 36862), (22, 36904),

Gene: Misha28\_76 Start: 49081, Stop: 49392, Start Num: 7

Candidate Starts for Misha28\_76:

(Start: 4 @48991 has 3 MA's), (5, 49027), (Start: 7 @49081 has 15 MA's), (Start: 10 @49132 has 1 MA's), (13, 49153), (14, 49165), (15, 49201), (21, 49264), (22, 49306),

Gene: MulchSalad\_71 Start: 45317, Stop: 45628, Start Num: 7

Candidate Starts for MulchSalad\_71:

(1, 45134), (2, 45194), (Start: 4 @45227 has 3 MA's), (5, 45263), (Start: 7 @45317 has 15 MA's), (Start: 10 @45368 has 1 MA's), (13, 45389), (14, 45401), (15, 45437), (21, 45500), (22, 45542),

Gene: Parmesanjohn\_56 Start: 36682, Stop: 36984, Start Num: 7

Candidate Starts for Parmesanjohn\_56:

(6, 36637), (Start: 7 @36682 has 15 MA's), (Start: 10 @36733 has 1 MA's), (13, 36754), (14, 36766), (15, 36802), (21, 36865), (22, 36907),

Gene: Phloss\_54 Start: 36089, Stop: 36391, Start Num: 7

Candidate Starts for Phloss\_54:

(6, 36044), (Start: 7 @36089 has 15 MA's), (Start: 10 @36140 has 1 MA's), (13, 36161), (14, 36173), (15, 36209), (21, 36272), (22, 36314),

Gene: Pipsqueaks\_57 Start: 36660, Stop: 36962, Start Num: 7

Candidate Starts for Pipsqueaks\_57:

(6, 36615), (Start: 7 @36660 has 15 MA's), (Start: 10 @36711 has 1 MA's), (13, 36732), (14, 36744), (15, 36780), (21, 36843), (22, 36885),

Gene: Rita\_54 Start: 36643, Stop: 36906, Start Num: 11

Candidate Starts for Rita\_54:

(Start: 11 @36643 has 1 MA's), (21, 36766),

Gene: Schnauzer\_57 Start: 36682, Stop: 36984, Start Num: 7

Candidate Starts for Schnauzer\_57:

(6, 36637), (Start: 7 @36682 has 15 MA's), (Start: 10 @36733 has 1 MA's), (13, 36754), (14, 36766), (15, 36802), (21, 36865), (22, 36907),

Gene: Silvafighter\_56 Start: 36170, Stop: 36607, Start Num: 4

Candidate Starts for Silvafighter\_56:

(Start: 4 @36170 has 3 MA's), (5, 36206), (Start: 7 @36260 has 15 MA's), (8, 36302), (9, 36323), (12, 36374), (21, 36503), (22, 36545),

Gene: Smurph\_56 Start: 36682, Stop: 36984, Start Num: 7

Candidate Starts for Smurph\_56:

(6, 36637), (Start: 7 @36682 has 15 MA's), (Start: 10 @36733 has 1 MA's), (13, 36754), (14, 36766), (15, 36802), (21, 36865), (22, 36907),

Gene: TootsiePop\_76 Start: 49081, Stop: 49392, Start Num: 7

Candidate Starts for TootsiePop\_76:

(Start: 4 @48991 has 3 MA's), (5, 49027), (Start: 7 @49081 has 15 MA's), (Start: 10 @49132 has 1 MA's), (13, 49153), (14, 49165), (15, 49201), (21, 49264), (22, 49306),

Gene: Xerxes\_56 Start: 36679, Stop: 36981, Start Num: 7

Candidate Starts for Xerxes\_56:

(6, 36634), (Start: 7 @36679 has 15 MA's), (Start: 10 @36730 has 1 MA's), (13, 36751), (14, 36763), (15, 36799), (21, 36862), (22, 36904),