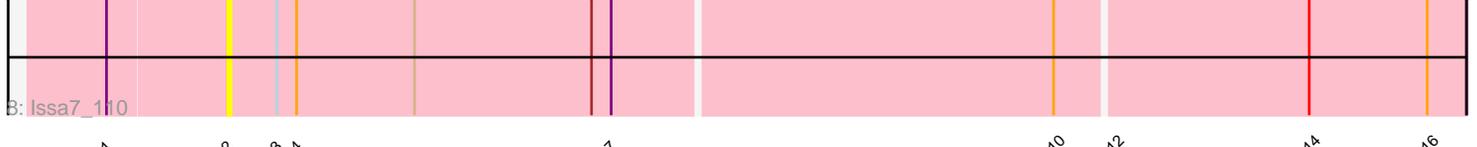
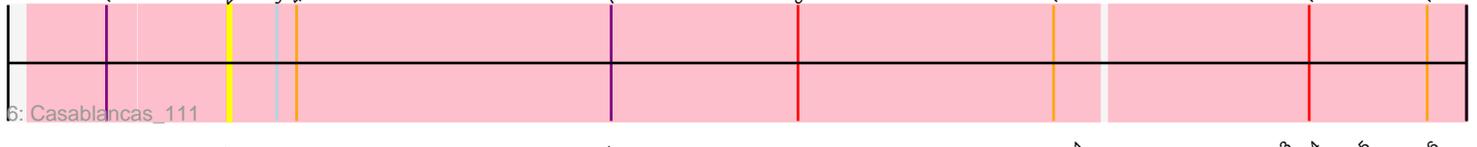
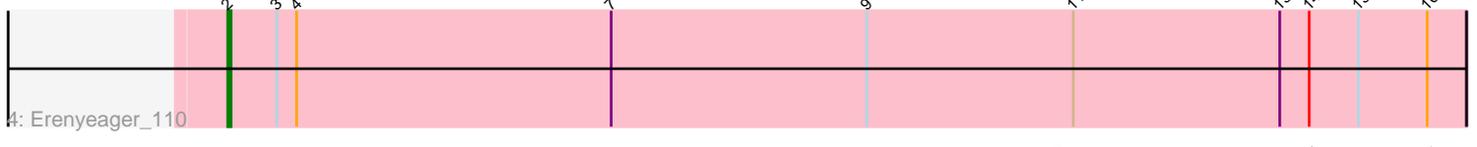
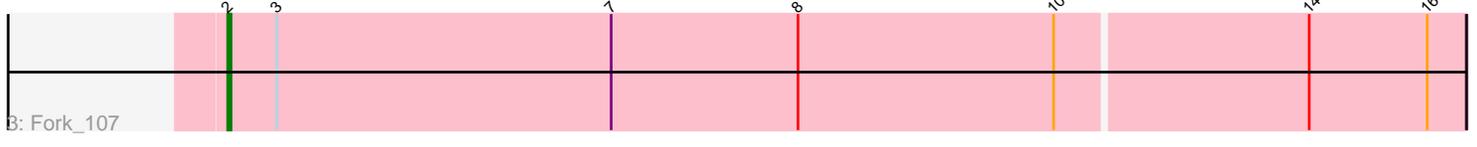
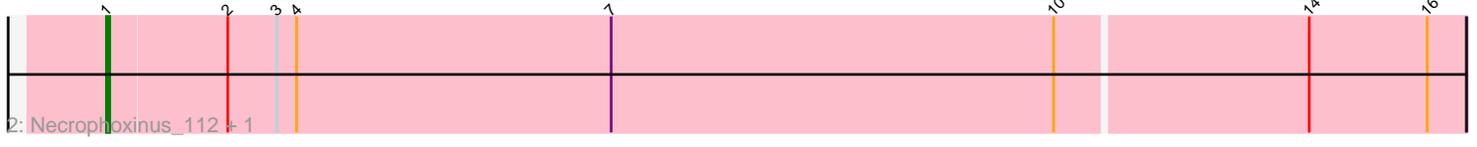
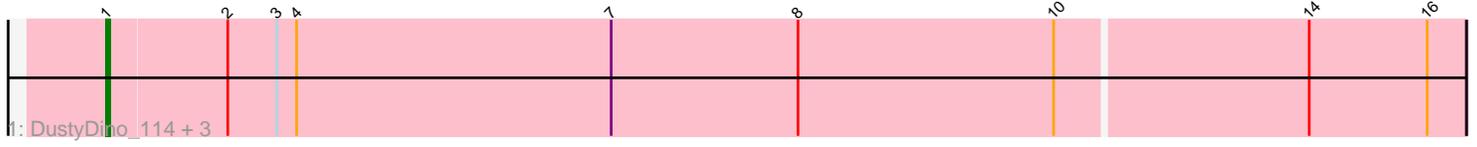


Pham 287153



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 287153 Report

This analysis was run 03/28/26 on database version 641.

Pham number 287153 has 17 members, 5 are drafts.

Phages represented in each track:

- Track 1 : DustyDino\_114, Yuma\_109, RunningBrook\_112, ASegato\_109
- Track 2 : Necrophoxinus\_112, HollowPurple\_111
- Track 3 : Fork\_107
- Track 4 : Erenyeager\_110
- Track 5 : Welcome\_113
- Track 6 : Casablanacas\_111
- Track 7 : Musetta\_108, Lyell\_110
- Track 8 : Issa7\_110
- Track 9 : Deschain\_110
- Track 10 : SteakFry\_109
- Track 11 : Shroomer\_113, StevieWelch\_111

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

The start number called the most often in the published annotations is 2, it was called in 6 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Casablanacas\_111, Erenyeager\_110, Fork\_107, Issa7\_110, Lyell\_110, Musetta\_108, Shroomer\_113, SteakFry\_109, StevieWelch\_111, Welcome\_113,

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

- ASegato\_109, Deschain\_110, DustyDino\_114, HollowPurple\_111, Necrophoxinus\_112, RunningBrook\_112, Yuma\_109,

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

- 

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

Start 1:

- Found in 10 of 17 ( 58.8% ) of genes in pham
- Manual Annotations of this start: 6 of 12
- Called 70.0% of time when present

- Phage (with cluster) where this start called: ASegato\_109 (ED2), Deschain\_110 (ED2), DustyDino\_114 (ED2), HollowPurple\_111 (ED2), Necrophoxinus\_112 (ED2), RunningBrook\_112 (ED2), Yuma\_109 (ED2),

Start 2:

- Found in 17 of 17 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 6 of 12
- Called 58.8% of time when present
- Phage (with cluster) where this start called: Casablanacas\_111 (ED2), Erenyeager\_110 (ED2), Fork\_107 (ED2), Issa7\_110 (ED2), Lyell\_110 (ED2), Musetta\_108 (ED2), Shroomer\_113 (ED2), SteakFry\_109 (ED2), StevieWelch\_111 (ED2), Welcome\_113 (ED2),

### Summary by clusters:

There is one cluster represented in this pham: ED2

Info for manual annotations of cluster ED2:

- Start number 1 was manually annotated 6 times for cluster ED2.
- Start number 2 was manually annotated 6 times for cluster ED2.

### Gene Information:

Gene: ASegato\_109 Start: 57290, Stop: 56880, Start Num: 1

Candidate Starts for ASegato\_109:

(Start: 1 @57290 has 6 MA's), (Start: 2 @57254 has 6 MA's), (3, 57239), (4, 57233), (7, 57137), (8, 57080), (10, 57002), (14, 56927), (16, 56891),

Gene: Casablanacas\_111 Start: 56884, Stop: 56510, Start Num: 2

Candidate Starts for Casablanacas\_111:

(Start: 1 @56920 has 6 MA's), (Start: 2 @56884 has 6 MA's), (3, 56869), (4, 56863), (7, 56767), (8, 56710), (10, 56632), (14, 56557), (16, 56521),

Gene: Deschain\_110 Start: 57472, Stop: 57062, Start Num: 1

Candidate Starts for Deschain\_110:

(Start: 1 @57472 has 6 MA's), (Start: 2 @57436 has 6 MA's), (3, 57421), (4, 57415), (7, 57319), (10, 57184), (12, 57169), (14, 57109), (16, 57073),

Gene: DustyDino\_114 Start: 58143, Stop: 57733, Start Num: 1

Candidate Starts for DustyDino\_114:

(Start: 1 @58143 has 6 MA's), (Start: 2 @58107 has 6 MA's), (3, 58092), (4, 58086), (7, 57990), (8, 57933), (10, 57855), (14, 57780), (16, 57744),

Gene: Erenyeager\_110 Start: 57108, Stop: 56731, Start Num: 2

Candidate Starts for Erenyeager\_110:

(Start: 2 @57108 has 6 MA's), (3, 57093), (4, 57087), (7, 56991), (9, 56913), (11, 56850), (13, 56787), (14, 56778), (15, 56763), (16, 56742),

Gene: Fork\_107 Start: 57132, Stop: 56758, Start Num: 2

Candidate Starts for Fork\_107:

(Start: 2 @57132 has 6 MA's), (3, 57117), (7, 57015), (8, 56958), (10, 56880), (14, 56805), (16, 56769),

Gene: HollowPurple\_111 Start: 57719, Stop: 57309, Start Num: 1  
Candidate Starts for HollowPurple\_111:  
(Start: 1 @57719 has 6 MA's), (Start: 2 @57683 has 6 MA's), (3, 57668), (4, 57662), (7, 57566), (10, 57431), (14, 57356), (16, 57320),

Gene: Issa7\_110 Start: 57175, Stop: 56804, Start Num: 2  
Candidate Starts for Issa7\_110:  
(Start: 1 @57211 has 6 MA's), (Start: 2 @57175 has 6 MA's), (3, 57160), (4, 57154), (5, 57118), (6, 57064), (7, 57058), (10, 56926), (14, 56851), (16, 56815),

Gene: Lyell\_110 Start: 57057, Stop: 56680, Start Num: 2  
Candidate Starts for Lyell\_110:  
(Start: 2 @57057 has 6 MA's), (3, 57042), (7, 56940), (11, 56799), (13, 56736), (14, 56727), (15, 56712), (16, 56691),

Gene: Musetta\_108 Start: 57298, Stop: 56921, Start Num: 2  
Candidate Starts for Musetta\_108:  
(Start: 2 @57298 has 6 MA's), (3, 57283), (7, 57181), (11, 57040), (13, 56977), (14, 56968), (15, 56953), (16, 56932),

Gene: Necrophoxinus\_112 Start: 57987, Stop: 57577, Start Num: 1  
Candidate Starts for Necrophoxinus\_112:  
(Start: 1 @57987 has 6 MA's), (Start: 2 @57951 has 6 MA's), (3, 57936), (4, 57930), (7, 57834), (10, 57699), (14, 57624), (16, 57588),

Gene: RunningBrook\_112 Start: 58143, Stop: 57733, Start Num: 1  
Candidate Starts for RunningBrook\_112:  
(Start: 1 @58143 has 6 MA's), (Start: 2 @58107 has 6 MA's), (3, 58092), (4, 58086), (7, 57990), (8, 57933), (10, 57855), (14, 57780), (16, 57744),

Gene: Shroomer\_113 Start: 57555, Stop: 57178, Start Num: 2  
Candidate Starts for Shroomer\_113:  
(Start: 2 @57555 has 6 MA's), (3, 57540), (4, 57534), (7, 57438), (11, 57297), (13, 57234), (14, 57225), (15, 57210), (16, 57189),

Gene: SteakFry\_109 Start: 57683, Stop: 57309, Start Num: 2  
Candidate Starts for SteakFry\_109:  
(Start: 1 @57719 has 6 MA's), (Start: 2 @57683 has 6 MA's), (3, 57668), (4, 57662), (7, 57566), (10, 57431), (14, 57356), (16, 57320),

Gene: StevieWelch\_111 Start: 57350, Stop: 56973, Start Num: 2  
Candidate Starts for StevieWelch\_111:  
(Start: 2 @57350 has 6 MA's), (3, 57335), (4, 57329), (7, 57233), (11, 57092), (13, 57029), (14, 57020), (15, 57005), (16, 56984),

Gene: Welcome\_113 Start: 57947, Stop: 57573, Start Num: 2  
Candidate Starts for Welcome\_113:  
(Start: 2 @57947 has 6 MA's), (3, 57932), (5, 57890), (7, 57830), (8, 57773), (10, 57695), (14, 57620), (16, 57584),

Gene: Yuma\_109 Start: 57104, Stop: 56694, Start Num: 1  
Candidate Starts for Yuma\_109:

(Start: 1 @57104 has 6 MA's), (Start: 2 @57068 has 6 MA's), (3, 57053), (4, 57047), (7, 56951), (8, 56894), (10, 56816), (14, 56741), (16, 56705),