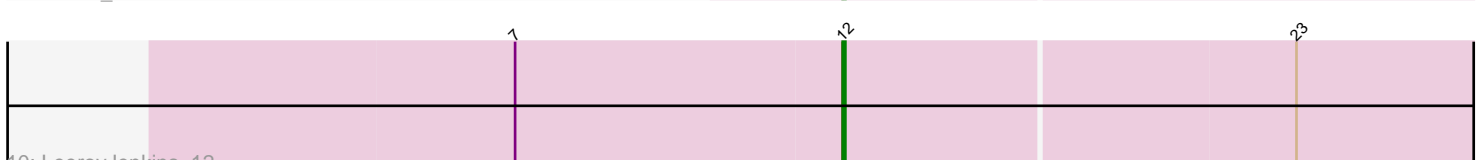
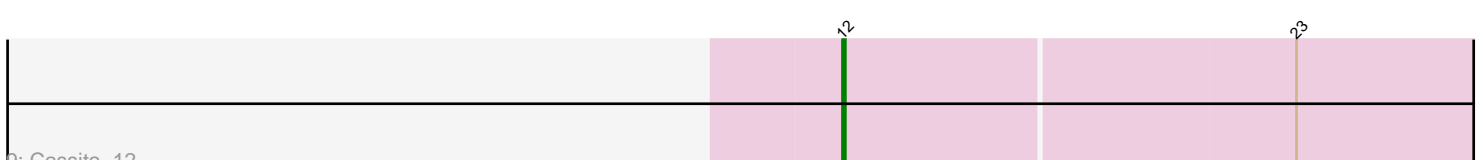
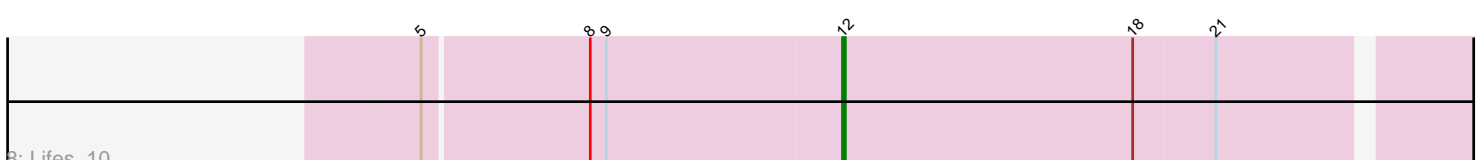
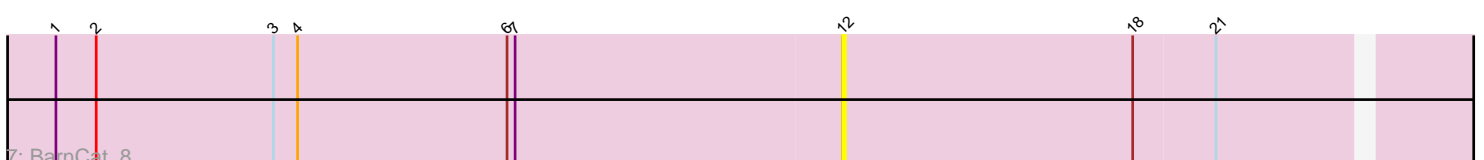
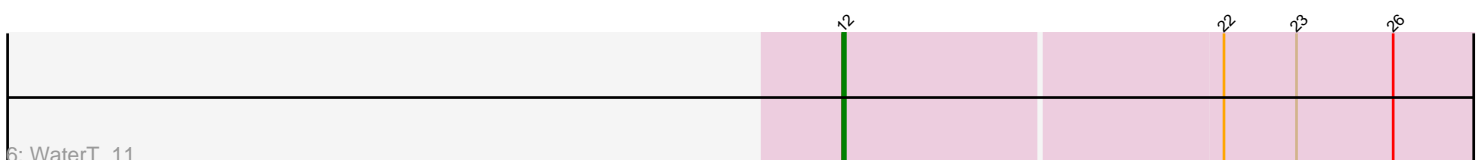
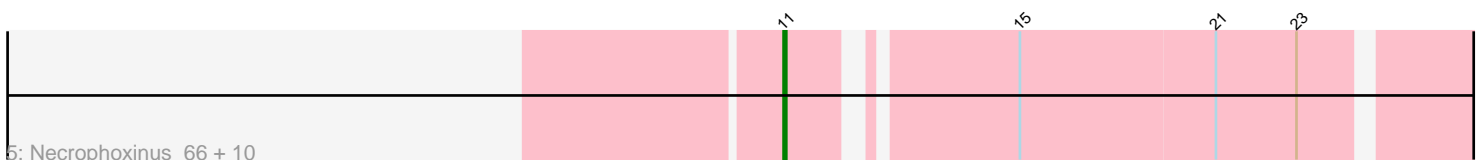
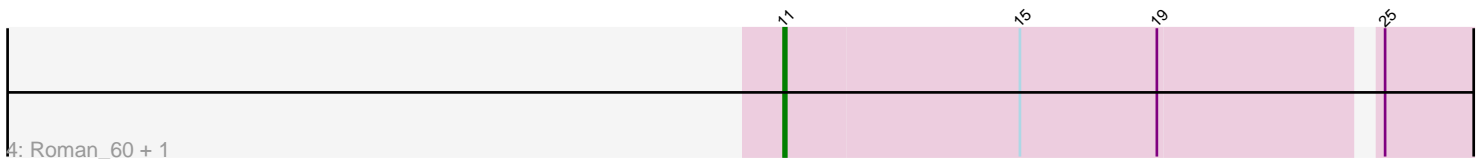
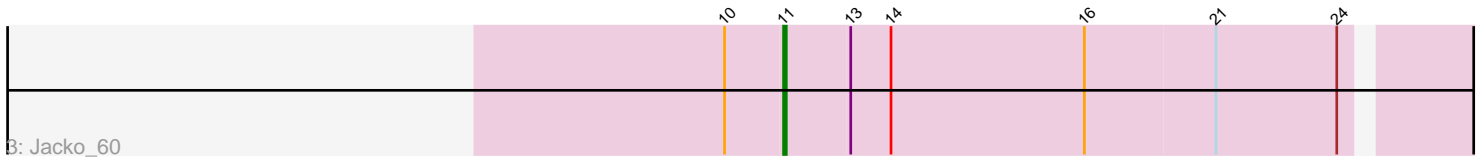
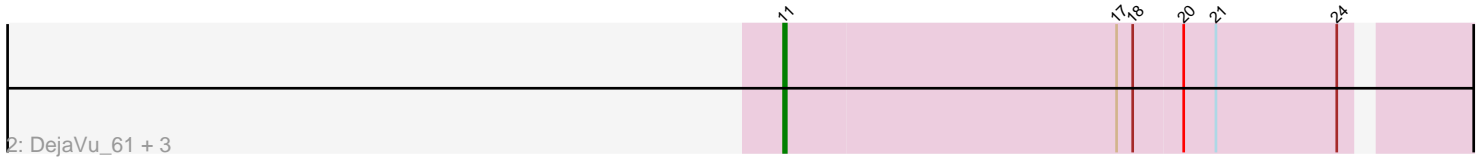
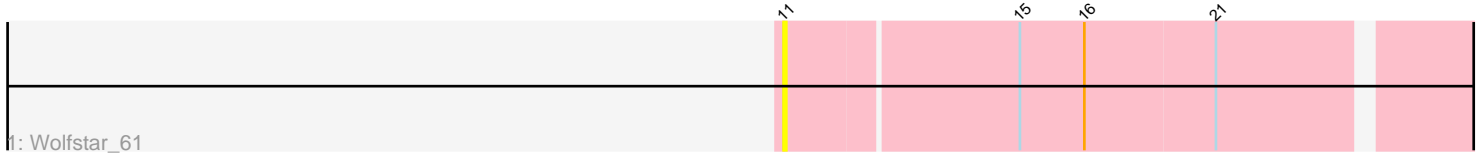


Pham 163876



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 163876 Report

This analysis was run 04/28/24 on database version 559.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 163876 has 24 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Wolfstar\_61
- Track 2 : DejaVu\_61, Lupine\_58, Pavlo\_59, PhillyPhilly\_59
- Track 3 : Jacko\_60
- Track 4 : Roman\_60, Hubbs\_60
- Track 5 : Necrophoxinus\_66, RunningBrook\_66, ASegato\_63, Welcome\_65, DustyDino\_67, Musetta\_64, Lyell\_64, Erenyeager\_64, Yuma\_63, StevieWelch\_64, Fork\_60
- Track 6 : WaterT\_11
- Track 7 : BarnCat\_8
- Track 8 : Lifes\_10
- Track 9 : Cassita\_12
- Track 10 : LeeroyJenkins\_12

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

The start number called the most often in the published annotations is 11, it was called in 16 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASegato\_63, DejaVu\_61, DustyDino\_67, Erenyeager\_64, Fork\_60, Hubbs\_60, Jacko\_60, Lupine\_58, Lyell\_64, Musetta\_64, Necrophoxinus\_66, Pavlo\_59, PhillyPhilly\_59, Roman\_60, RunningBrook\_66, StevieWelch\_64, Welcome\_65, Wolfstar\_61, Yuma\_63,

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

- 

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

- BarnCat\_8, Cassita\_12, LeeroyJenkins\_12, Lifes\_10, WaterT\_11,

## Summary by start number:

### Start 11:

- Found in 19 of 24 ( 79.2% ) of genes in pham
- Manual Annotations of this start: 16 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASegato\_63 (ED2), DejaVu\_61 (ED1), DustyDino\_67 (ED2), Erenyeager\_64 (ED2), Fork\_60 (ED2), Hubbs\_60 (ED1), Jacko\_60 (ED1), Lupine\_58 (ED1), Lyell\_64 (ED2), Musetta\_64 (ED2), Necrophoxinus\_66 (ED2), Pavlo\_59 (ED1), PhillyPhilly\_59 (ED1), Roman\_60 (ED1), RunningBrook\_66 (ED2), StevieWelch\_64 (ED2), Welcome\_65 (ED2), Wolfstar\_61 (ED), Yuma\_63 (ED2),

### Start 12:

- Found in 5 of 24 ( 20.8% ) of genes in pham
- Manual Annotations of this start: 4 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BarnCat\_8 (GB), Cassita\_12 (GB), LeeroyJenkins\_12 (GB), Lifes\_10 (GB), WaterT\_11 (GB),

## Summary by clusters:

There are 4 clusters represented in this pham: ED2, ED, ED1, GB,

### Info for manual annotations of cluster ED1:

- Start number 11 was manually annotated 7 times for cluster ED1.

### Info for manual annotations of cluster ED2:

- Start number 11 was manually annotated 9 times for cluster ED2.

### Info for manual annotations of cluster GB:

- Start number 12 was manually annotated 4 times for cluster GB.

## Gene Information:

Gene: ASegato\_63 Start: 35933, Stop: 36172, Start Num: 11

Candidate Starts for ASegato\_63:

(Start: 11 @35933 has 16 MA's), (15, 36005), (21, 36077), (23, 36107),

Gene: BarnCat\_8 Start: 2513, Stop: 2755, Start Num: 12

Candidate Starts for BarnCat\_8:

(1, 2222), (2, 2237), (3, 2303), (4, 2312), (6, 2390), (7, 2393), (Start: 12 @2513 has 4 MA's), (18, 2621), (21, 2651),

Gene: Cassita\_12 Start: 3271, Stop: 3519, Start Num: 12

Candidate Starts for Cassita\_12:

(Start: 12 @3271 has 4 MA's), (23, 3436),

Gene: DejaVu\_61 Start: 35839, Stop: 36096, Start Num: 11

Candidate Starts for DejaVu\_61:

(Start: 11 @35839 has 16 MA's), (17, 35962), (18, 35968), (20, 35986), (21, 35998), (24, 36043),

Gene: DustyDino\_67 Start: 36531, Stop: 36770, Start Num: 11

Candidate Starts for DustyDino\_67:

(Start: 11 @36531 has 16 MA's), (15, 36603), (21, 36675), (23, 36705),

Gene: Erenyeager\_64 Start: 35923, Stop: 36162, Start Num: 11

Candidate Starts for Erenyeager\_64:

(Start: 11 @35923 has 16 MA's), (15, 35995), (21, 36067), (23, 36097),

Gene: Fork\_60 Start: 35583, Stop: 35822, Start Num: 11

Candidate Starts for Fork\_60:

(Start: 11 @35583 has 16 MA's), (15, 35655), (21, 35727), (23, 35757),

Gene: Hubbs\_60 Start: 36051, Stop: 36308, Start Num: 11

Candidate Starts for Hubbs\_60:

(Start: 11 @36051 has 16 MA's), (15, 36138), (19, 36189), (25, 36264),

Gene: Jacko\_60 Start: 34827, Stop: 35084, Start Num: 11

Candidate Starts for Jacko\_60:

(10, 34806), (Start: 11 @34827 has 16 MA's), (13, 34851), (14, 34866), (16, 34938), (21, 34986), (24, 35031),

Gene: LeeroyJenkins\_12 Start: 3061, Stop: 3309, Start Num: 12

Candidate Starts for LeeroyJenkins\_12:

(7, 2941), (Start: 12 @3061 has 4 MA's), (23, 3226),

Gene: Lifes\_10 Start: 2650, Stop: 2892, Start Num: 12

Candidate Starts for Lifes\_10:

(5, 2497), (8, 2557), (9, 2563), (Start: 12 @2650 has 4 MA's), (18, 2758), (21, 2788),

Gene: Lupine\_58 Start: 35253, Stop: 35510, Start Num: 11

Candidate Starts for Lupine\_58:

(Start: 11 @35253 has 16 MA's), (17, 35376), (18, 35382), (20, 35400), (21, 35412), (24, 35457),

Gene: Lyell\_64 Start: 35842, Stop: 36081, Start Num: 11

Candidate Starts for Lyell\_64:

(Start: 11 @35842 has 16 MA's), (15, 35914), (21, 35986), (23, 36016),

Gene: Musetta\_64 Start: 36303, Stop: 36542, Start Num: 11

Candidate Starts for Musetta\_64:

(Start: 11 @36303 has 16 MA's), (15, 36375), (21, 36447), (23, 36477),

Gene: Necrophoxinus\_66 Start: 36537, Stop: 36776, Start Num: 11

Candidate Starts for Necrophoxinus\_66:

(Start: 11 @36537 has 16 MA's), (15, 36609), (21, 36681), (23, 36711),

Gene: Pavlo\_59 Start: 35898, Stop: 36155, Start Num: 11

Candidate Starts for Pavlo\_59:

(Start: 11 @35898 has 16 MA's), (17, 36021), (18, 36027), (20, 36045), (21, 36057), (24, 36102),

Gene: PhillyPhilly\_59 Start: 35432, Stop: 35689, Start Num: 11

Candidate Starts for PhillyPhilly\_59:

(Start: 11 @35432 has 16 MA's), (17, 35555), (18, 35561), (20, 35579), (21, 35591), (24, 35636),

Gene: Roman\_60 Start: 35899, Stop: 36156, Start Num: 11

Candidate Starts for Roman\_60:

(Start: 11 @35899 has 16 MA's), (15, 35986), (19, 36037), (25, 36112),

Gene: RunningBrook\_66 Start: 36531, Stop: 36770, Start Num: 11

Candidate Starts for RunningBrook\_66:

(Start: 11 @36531 has 16 MA's), (15, 36603), (21, 36675), (23, 36705),

Gene: StevieWelch\_64 Start: 35923, Stop: 36162, Start Num: 11

Candidate Starts for StevieWelch\_64:

(Start: 11 @35923 has 16 MA's), (15, 35995), (21, 36067), (23, 36097),

Gene: WaterT\_11 Start: 2884, Stop: 3132, Start Num: 12

Candidate Starts for WaterT\_11:

(Start: 12 @2884 has 4 MA's), (22, 3022), (23, 3049), (26, 3085),

Gene: Welcome\_65 Start: 36288, Stop: 36527, Start Num: 11

Candidate Starts for Welcome\_65:

(Start: 11 @36288 has 16 MA's), (15, 36360), (21, 36432), (23, 36462),

Gene: Wolfstar\_61 Start: 36943, Stop: 37197, Start Num: 11

Candidate Starts for Wolfstar\_61:

(Start: 11 @36943 has 16 MA's), (15, 37027), (16, 37051), (21, 37099),

Gene: Yuma\_63 Start: 35857, Stop: 36096, Start Num: 11

Candidate Starts for Yuma\_63:

(Start: 11 @35857 has 16 MA's), (15, 35929), (21, 36001), (23, 36031),