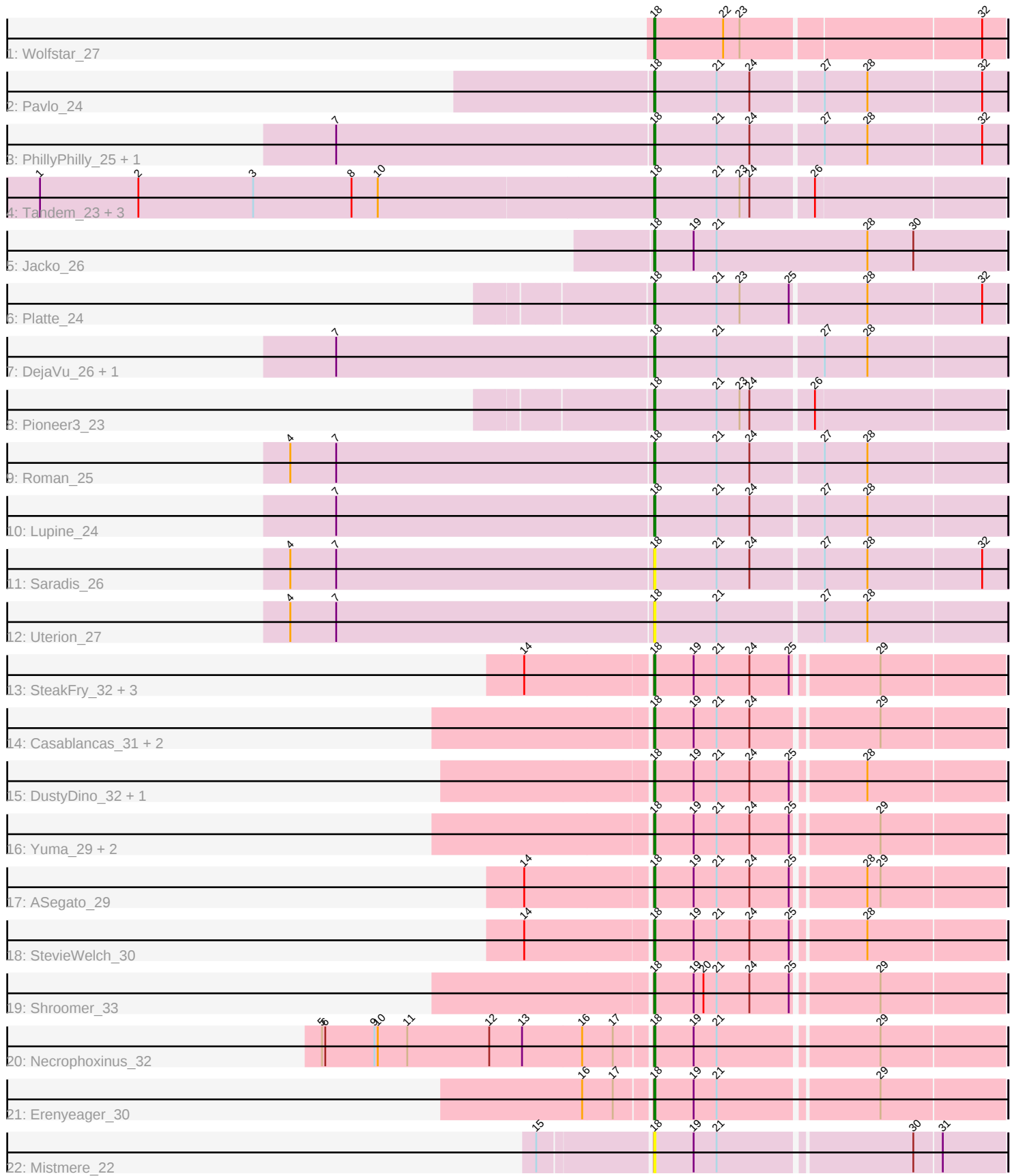


## Pham 313711



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 313711 Report

This analysis was run 09/05/26 on database version 662.

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 313711 has 35 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Wolfstar\_27
- Track 2 : Pavlo\_24
- Track 3 : PhillyPhilly\_25, Solimine\_26
- Track 4 : Tandem\_23, Alleb\_24, Hortus1\_23, OlinDD\_23
- Track 5 : Jacko\_26
- Track 6 : Platte\_24
- Track 7 : DeJaVu\_26, Hubbs\_25
- Track 8 : Pioneer3\_23
- Track 9 : Roman\_25
- Track 10 : Lupine\_24
- Track 11 : Saradis\_26
- Track 12 : Uterion\_27
- Track 13 : SteakFry\_32, Fork\_26, HollowPurple\_31, Issa7\_29
- Track 14 : Casablancas\_31, Deschain\_30, Lyell\_30
- Track 15 : DustyDino\_32, RunningBrook\_30
- Track 16 : Yuma\_29, Musetta\_30, Welcome\_31
- Track 17 : ASegato\_29
- Track 18 : StevieWelch\_30
- Track 19 : Shroomer\_33
- Track 20 : Necrophoxinus\_32
- Track 21 : Erenyeager\_30
- Track 22 : Mistmere\_22

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

The start number called the most often in the published annotations is 18, it was called in 29 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASegato\_29, Alleb\_24, Casablanacas\_31, DejaVu\_26, Deschain\_30, DustyDino\_32, Erenyeager\_30, Fork\_26, HollowPurple\_31, Hortus1\_23, Hubbs\_25, Issa7\_29, Jacko\_26, Lupine\_24, Lyell\_30, Mistmere\_22, Musetta\_30, Necrophoxinus\_32, OlinDD\_23, Pavlo\_24, PhillyPhilly\_25, Pioneer3\_23, Platte\_24, Roman\_25, RunningBrook\_30, Saradis\_26, Shroomer\_33, Solimine\_26, SteakFry\_32, StevieWelch\_30, Tandem\_23, Uterion\_27, Welcome\_31, Wolfstar\_27, Yuma\_29,

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 18:

- Found in 35 of 35 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 29 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASegato\_29 (ED2), Alleb\_24 (ED1), Casablanacas\_31 (ED2), DejaVu\_26 (ED1), Deschain\_30 (ED2), DustyDino\_32 (ED2), Erenyeager\_30 (ED2), Fork\_26 (ED2), HollowPurple\_31 (ED2), Hortus1\_23 (ED1), Hubbs\_25 (ED1), Issa7\_29 (ED2), Jacko\_26 (ED1), Lupine\_24 (ED1), Lyell\_30 (ED2), Mistmere\_22 (ED3), Musetta\_30 (ED2), Necrophoxinus\_32 (ED2), OlinDD\_23 (ED1), Pavlo\_24 (ED1), PhillyPhilly\_25 (ED1), Pioneer3\_23 (ED1), Platte\_24 (ED1), Roman\_25 (ED1), RunningBrook\_30 (ED2), Saradis\_26 (ED1), Shroomer\_33 (ED2), Solimine\_26 (ED1), SteakFry\_32 (ED2), StevieWelch\_30 (ED2), Tandem\_23 (ED1), Uterion\_27 (ED1), Welcome\_31 (ED2), Wolfstar\_27 (ED), Yuma\_29 (ED2),

### Summary by clusters:

There are 4 clusters represented in this pham: ED2, ED, ED1, ED3,

Info for manual annotations of cluster ED:

- Start number 18 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:

- Start number 18 was manually annotated 13 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 18 was manually annotated 15 times for cluster ED2.

### Gene Information:

Gene: ASegato\_29 Start: 8490, Stop: 8795, Start Num: 18

Candidate Starts for ASegato\_29:

(14, 8379), (Start: 18 @8490 has 29 MA's), (19, 8526), (21, 8547), (24, 8577), (25, 8613), (28, 8673), (29, 8685),

Gene: Alleb\_24 Start: 7615, Stop: 7923, Start Num: 18

Candidate Starts for Alleb\_24:

(1, 7057), (2, 7147), (3, 7252), (8, 7342), (10, 7366), (Start: 18 @7615 has 29 MA's), (21, 7672), (23, 7693), (24, 7702), (26, 7756),

Gene: Casablanacas\_31 Start: 8603, Stop: 8908, Start Num: 18

Candidate Starts for Casablanacas\_31:

(Start: 18 @8603 has 29 MA's), (19, 8639), (21, 8660), (24, 8690), (29, 8798),

Gene: DejaVu\_26 Start: 7843, Stop: 8154, Start Num: 18

Candidate Starts for DejaVu\_26:

(7, 7555), (Start: 18 @7843 has 29 MA's), (21, 7900), (27, 7990), (28, 8029),

Gene: Deschain\_30 Start: 9267, Stop: 9572, Start Num: 18

Candidate Starts for Deschain\_30:

(Start: 18 @9267 has 29 MA's), (19, 9303), (21, 9324), (24, 9354), (29, 9462),

Gene: DustyDino\_32 Start: 9201, Stop: 9506, Start Num: 18

Candidate Starts for DustyDino\_32:

(Start: 18 @9201 has 29 MA's), (19, 9237), (21, 9258), (24, 9288), (25, 9324), (28, 9384),

Gene: Erenyeager\_30 Start: 8861, Stop: 9166, Start Num: 18

Candidate Starts for Erenyeager\_30:

(16, 8804), (17, 8831), (Start: 18 @8861 has 29 MA's), (19, 8897), (21, 8918), (29, 9056),

Gene: Fork\_26 Start: 8147, Stop: 8452, Start Num: 18

Candidate Starts for Fork\_26:

(14, 8036), (Start: 18 @8147 has 29 MA's), (19, 8183), (21, 8204), (24, 8234), (25, 8270), (29, 8342),

Gene: HollowPurple\_31 Start: 8717, Stop: 9022, Start Num: 18

Candidate Starts for HollowPurple\_31:

(14, 8606), (Start: 18 @8717 has 29 MA's), (19, 8753), (21, 8774), (24, 8804), (25, 8840), (29, 8912),

Gene: Hortus1\_23 Start: 7614, Stop: 7922, Start Num: 18

Candidate Starts for Hortus1\_23:

(1, 7056), (2, 7146), (3, 7251), (8, 7341), (10, 7365), (Start: 18 @7614 has 29 MA's), (21, 7671), (23, 7692), (24, 7701), (26, 7755),

Gene: Hubbs\_25 Start: 8055, Stop: 8366, Start Num: 18

Candidate Starts for Hubbs\_25:

(7, 7767), (Start: 18 @8055 has 29 MA's), (21, 8112), (27, 8202), (28, 8241),

Gene: Issa7\_29 Start: 8125, Stop: 8430, Start Num: 18

Candidate Starts for Issa7\_29:

(14, 8014), (Start: 18 @8125 has 29 MA's), (19, 8161), (21, 8182), (24, 8212), (25, 8248), (29, 8320),

Gene: Jacko\_26 Start: 8159, Stop: 8479, Start Num: 18

Candidate Starts for Jacko\_26:

(Start: 18 @8159 has 29 MA's), (19, 8195), (21, 8216), (28, 8354), (30, 8396),

Gene: Lupine\_24 Start: 7733, Stop: 8044, Start Num: 18

Candidate Starts for Lupine\_24:

(7, 7445), (Start: 18 @7733 has 29 MA's), (21, 7790), (24, 7820), (27, 7880), (28, 7919),

Gene: Lyell\_30 Start: 8779, Stop: 9084, Start Num: 18

Candidate Starts for Lyell\_30:

(Start: 18 @8779 has 29 MA's), (19, 8815), (21, 8836), (24, 8866), (29, 8974),

Gene: Mistmere\_22 Start: 6369, Stop: 6674, Start Num: 18

Candidate Starts for Mistmere\_22:

(15, 6273), (Start: 18 @6369 has 29 MA's), (19, 6405), (21, 6426), (30, 6594), (31, 6618),

Gene: Musetta\_30 Start: 8858, Stop: 9163, Start Num: 18

Candidate Starts for Musetta\_30:

(Start: 18 @8858 has 29 MA's), (19, 8894), (21, 8915), (24, 8945), (25, 8981), (29, 9053),

Gene: Necrophoxinus\_32 Start: 9475, Stop: 9780, Start Num: 18

Candidate Starts for Necrophoxinus\_32:

(5, 9181), (6, 9184), (9, 9229), (10, 9232), (11, 9259), (12, 9334), (13, 9364), (16, 9418), (17, 9445),

(Start: 18 @9475 has 29 MA's), (19, 9511), (21, 9532), (29, 9670),

Gene: OlinDD\_23 Start: 7613, Stop: 7921, Start Num: 18

Candidate Starts for OlinDD\_23:

(1, 7055), (2, 7145), (3, 7250), (8, 7340), (10, 7364), (Start: 18 @7613 has 29 MA's), (21, 7670), (23, 7691), (24, 7700), (26, 7754),

Gene: Pavlo\_24 Start: 8008, Stop: 8319, Start Num: 18

Candidate Starts for Pavlo\_24:

(Start: 18 @8008 has 29 MA's), (21, 8065), (24, 8095), (27, 8155), (28, 8194), (32, 8296),

Gene: PhillyPhilly\_25 Start: 7913, Stop: 8224, Start Num: 18

Candidate Starts for PhillyPhilly\_25:

(7, 7625), (Start: 18 @7913 has 29 MA's), (21, 7970), (24, 8000), (27, 8060), (28, 8099), (32, 8201),

Gene: Pioneer3\_23 Start: 7612, Stop: 7920, Start Num: 18

Candidate Starts for Pioneer3\_23:

(Start: 18 @7612 has 29 MA's), (21, 7669), (23, 7690), (24, 7699), (26, 7753),

Gene: Platte\_24 Start: 7745, Stop: 8056, Start Num: 18

Candidate Starts for Platte\_24:

(Start: 18 @7745 has 29 MA's), (21, 7802), (23, 7823), (25, 7868), (28, 7934), (32, 8036),

Gene: Roman\_25 Start: 7911, Stop: 8222, Start Num: 18

Candidate Starts for Roman\_25:

(4, 7581), (7, 7623), (Start: 18 @7911 has 29 MA's), (21, 7968), (24, 7998), (27, 8058), (28, 8097),

Gene: RunningBrook\_30 Start: 9201, Stop: 9506, Start Num: 18

Candidate Starts for RunningBrook\_30:

(Start: 18 @9201 has 29 MA's), (19, 9237), (21, 9258), (24, 9288), (25, 9324), (28, 9384),

Gene: Saradis\_26 Start: 7971, Stop: 8282, Start Num: 18

Candidate Starts for Saradis\_26:

(4, 7641), (7, 7683), (Start: 18 @7971 has 29 MA's), (21, 8028), (24, 8058), (27, 8118), (28, 8157), (32, 8259),

Gene: Shroomer\_33 Start: 8696, Stop: 9001, Start Num: 18

Candidate Starts for Shroomer\_33:

(Start: 18 @8696 has 29 MA's), (19, 8732), (20, 8741), (21, 8753), (24, 8783), (25, 8819), (29, 8891),

Gene: Solimine\_26 Start: 8386, Stop: 8697, Start Num: 18

Candidate Starts for Solimine\_26:

(7, 8098), (Start: 18 @8386 has 29 MA's), (21, 8443), (24, 8473), (27, 8533), (28, 8572), (32, 8674),

Gene: SteakFry\_32 Start: 8717, Stop: 9022, Start Num: 18

Candidate Starts for SteakFry\_32:

(14, 8606), (Start: 18 @8717 has 29 MA's), (19, 8753), (21, 8774), (24, 8804), (25, 8840), (29, 8912),

Gene: StevieWelch\_30 Start: 8837, Stop: 9142, Start Num: 18

Candidate Starts for StevieWelch\_30:

(14, 8726), (Start: 18 @8837 has 29 MA's), (19, 8873), (21, 8894), (24, 8924), (25, 8960), (28, 9020),

Gene: Tandem\_23 Start: 7551, Stop: 7859, Start Num: 18

Candidate Starts for Tandem\_23:

(1, 6993), (2, 7083), (3, 7188), (8, 7278), (10, 7302), (Start: 18 @7551 has 29 MA's), (21, 7608), (23, 7629), (24, 7638), (26, 7692),

Gene: Uterion\_27 Start: 8478, Stop: 8789, Start Num: 18

Candidate Starts for Uterion\_27:

(4, 8148), (7, 8190), (Start: 18 @8478 has 29 MA's), (21, 8535), (27, 8625), (28, 8664),

Gene: Welcome\_31 Start: 8854, Stop: 9159, Start Num: 18

Candidate Starts for Welcome\_31:

(Start: 18 @8854 has 29 MA's), (19, 8890), (21, 8911), (24, 8941), (25, 8977), (29, 9049),

Gene: Wolfstar\_27 Start: 8751, Stop: 9059, Start Num: 18

Candidate Starts for Wolfstar\_27:

(Start: 18 @8751 has 29 MA's), (22, 8814), (23, 8829), (32, 9039),

Gene: Yuma\_29 Start: 8757, Stop: 9062, Start Num: 18

Candidate Starts for Yuma\_29:

(Start: 18 @8757 has 29 MA's), (19, 8793), (21, 8814), (24, 8844), (25, 8880), (29, 8952),