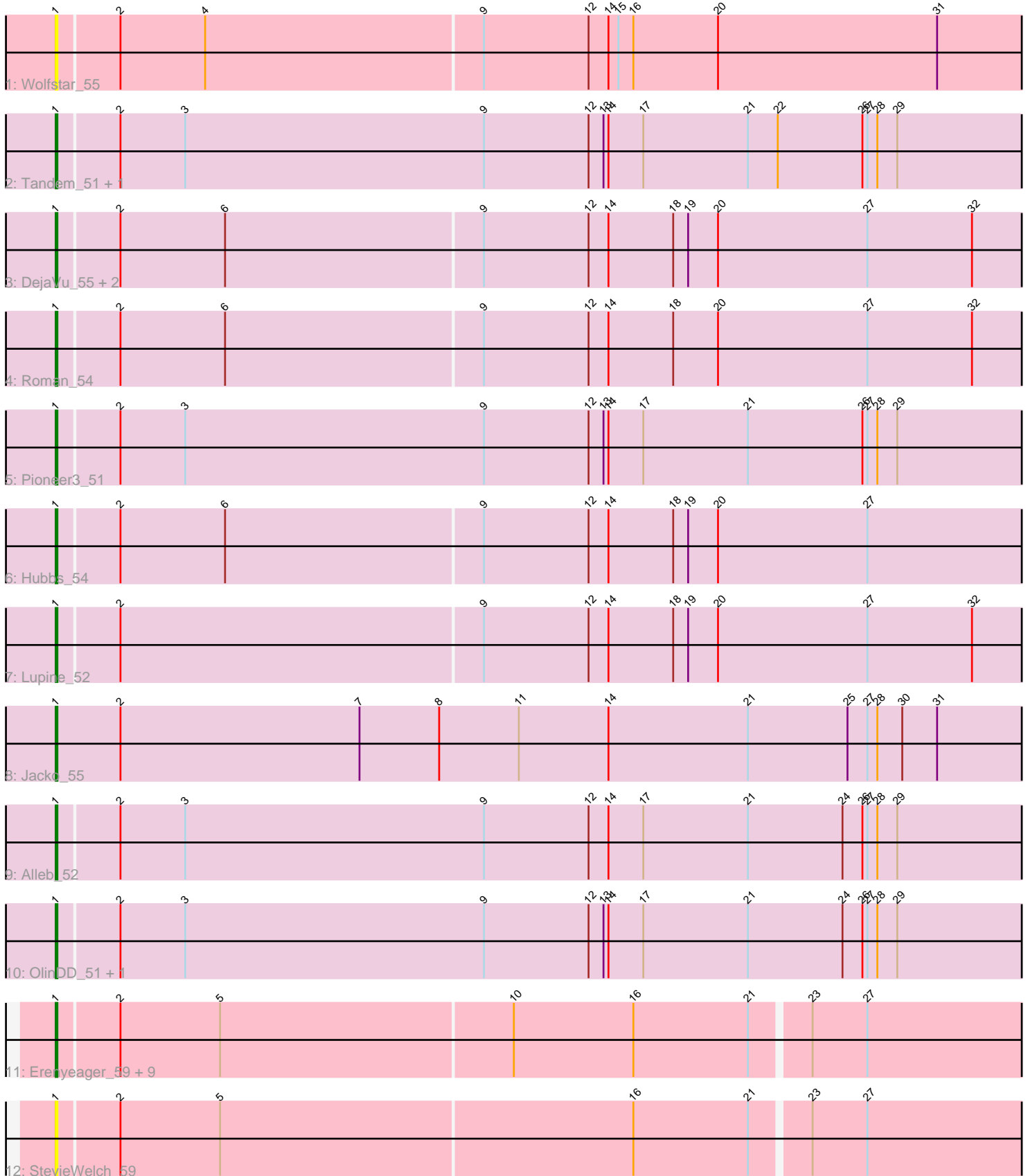


# Pham 3593



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 3593 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 3593 has 25 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Wolfstar\_55
- Track 2 : Tandem\_51, Platte\_51
- Track 3 : DejaVu\_55, Pavlo\_53, PhillyPhilly\_53
- Track 4 : Roman\_54
- Track 5 : Pioneer3\_51
- Track 6 : Hubbs\_54
- Track 7 : Lupine\_52
- Track 8 : Jacko\_55
- Track 9 : Alleb\_52
- Track 10 : OlinDD\_51, Hortus1\_51
- Track 11 : Erenyeager\_59, RunningBrook\_61, Necrophoxinus\_61, Yuma\_58, DustyDino\_62, Fork\_55, Musetta\_59, Welcome\_60, ASegato\_58, Lyell\_59
- Track 12 : StevieWelch\_59

### ***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 22 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASegato\_58, Alleb\_52, DejaVu\_55, DustyDino\_62, Erenyeager\_59, Fork\_55, Hortus1\_51, Hubbs\_54, Jacko\_55, Lupine\_52, Lyell\_59, Musetta\_59, Necrophoxinus\_61, OlinDD\_51, Pavlo\_53, PhillyPhilly\_53, Pioneer3\_51, Platte\_51, Roman\_54, RunningBrook\_61, StevieWelch\_59, Tandem\_51, Welcome\_60, Wolfstar\_55, Yuma\_58,

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 25 of 25 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 22 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASegato\_58 (ED2), Alleb\_52 (ED1), DejaVu\_55 (ED1), DustyDino\_62 (ED2), Erenyeager\_59 (ED2), Fork\_55 (ED2), Hortus1\_51 (ED1), Hubbs\_54 (ED1), Jacko\_55 (ED1), Lupine\_52 (ED1), Lyell\_59 (ED2), Musetta\_59 (ED2), Necrophoxinus\_61 (ED2), OlinDD\_51 (ED1), Pavlo\_53 (ED1), PhillyPhilly\_53 (ED1), Pioneer3\_51 (ED1), Platte\_51 (ED1), Roman\_54 (ED1), RunningBrook\_61 (ED2), StevieWelch\_59 (ED2), Tandem\_51 (ED1), Welcome\_60 (ED2), Wolfstar\_55 (ED), Yuma\_58 (ED2),

### Summary by clusters:

There are 3 clusters represented in this pham: ED2, ED, ED1,

Info for manual annotations of cluster ED1:

- Start number 1 was manually annotated 13 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 1 was manually annotated 9 times for cluster ED2.

### Gene Information:

Gene: ASegato\_58 Start: 32924, Stop: 33496, Start Num: 1

Candidate Starts for ASegato\_58:

(Start: 1 @32924 has 22 MA's), (2, 32960), (5, 33020), (10, 33194), (16, 33266), (21, 33335), (23, 33368), (27, 33401),

Gene: Alleb\_52 Start: 33046, Stop: 33627, Start Num: 1

Candidate Starts for Alleb\_52:

(Start: 1 @33046 has 22 MA's), (2, 33082), (3, 33121), (9, 33301), (12, 33364), (14, 33376), (17, 33397), (21, 33460), (24, 33517), (26, 33529), (27, 33532), (28, 33538), (29, 33550),

Gene: DejaVu\_55 Start: 32138, Stop: 32716, Start Num: 1

Candidate Starts for DejaVu\_55:

(Start: 1 @32138 has 22 MA's), (2, 32174), (6, 32237), (9, 32390), (12, 32453), (14, 32465), (18, 32504), (19, 32513), (20, 32531), (27, 32621), (32, 32684),

Gene: DustyDino\_62 Start: 33522, Stop: 34094, Start Num: 1

Candidate Starts for DustyDino\_62:

(Start: 1 @33522 has 22 MA's), (2, 33558), (5, 33618), (10, 33792), (16, 33864), (21, 33933), (23, 33966), (27, 33999),

Gene: Erenyeager\_59 Start: 32914, Stop: 33486, Start Num: 1

Candidate Starts for Erenyeager\_59:

(Start: 1 @32914 has 22 MA's), (2, 32950), (5, 33010), (10, 33184), (16, 33256), (21, 33325), (23, 33358), (27, 33391),

Gene: Fork\_55 Start: 32574, Stop: 33146, Start Num: 1

Candidate Starts for Fork\_55:

(Start: 1 @32574 has 22 MA's), (2, 32610), (5, 32670), (10, 32844), (16, 32916), (21, 32985), (23, 33018), (27, 33051),

Gene: Hortus1\_51 Start: 33036, Stop: 33617, Start Num: 1

Candidate Starts for Hortus1\_51:

(Start: 1 @33036 has 22 MA's), (2, 33072), (3, 33111), (9, 33291), (12, 33354), (13, 33363), (14, 33366), (17, 33387), (21, 33450), (24, 33507), (26, 33519), (27, 33522), (28, 33528), (29, 33540),

Gene: Hubbs\_54 Start: 32350, Stop: 32928, Start Num: 1

Candidate Starts for Hubbs\_54:

(Start: 1 @32350 has 22 MA's), (2, 32386), (6, 32449), (9, 32602), (12, 32665), (14, 32677), (18, 32716), (19, 32725), (20, 32743), (27, 32833),

Gene: Jacko\_55 Start: 31895, Stop: 32479, Start Num: 1

Candidate Starts for Jacko\_55:

(Start: 1 @31895 has 22 MA's), (2, 31934), (7, 32078), (8, 32126), (11, 32174), (14, 32228), (21, 32312), (25, 32372), (27, 32384), (28, 32390), (30, 32405), (31, 32426),

Gene: Lupine\_52 Start: 31552, Stop: 32130, Start Num: 1

Candidate Starts for Lupine\_52:

(Start: 1 @31552 has 22 MA's), (2, 31588), (9, 31804), (12, 31867), (14, 31879), (18, 31918), (19, 31927), (20, 31945), (27, 32035), (32, 32098),

Gene: Lyell\_59 Start: 32833, Stop: 33405, Start Num: 1

Candidate Starts for Lyell\_59:

(Start: 1 @32833 has 22 MA's), (2, 32869), (5, 32929), (10, 33103), (16, 33175), (21, 33244), (23, 33277), (27, 33310),

Gene: Musetta\_59 Start: 33294, Stop: 33866, Start Num: 1

Candidate Starts for Musetta\_59:

(Start: 1 @33294 has 22 MA's), (2, 33330), (5, 33390), (10, 33564), (16, 33636), (21, 33705), (23, 33738), (27, 33771),

Gene: Necrophoxinus\_61 Start: 33528, Stop: 34100, Start Num: 1

Candidate Starts for Necrophoxinus\_61:

(Start: 1 @33528 has 22 MA's), (2, 33564), (5, 33624), (10, 33798), (16, 33870), (21, 33939), (23, 33972), (27, 34005),

Gene: OlinDD\_51 Start: 33035, Stop: 33616, Start Num: 1

Candidate Starts for OlinDD\_51:

(Start: 1 @33035 has 22 MA's), (2, 33071), (3, 33110), (9, 33290), (12, 33353), (13, 33362), (14, 33365), (17, 33386), (21, 33449), (24, 33506), (26, 33518), (27, 33521), (28, 33527), (29, 33539),

Gene: Pavlo\_53 Start: 32197, Stop: 32775, Start Num: 1

Candidate Starts for Pavlo\_53:

(Start: 1 @32197 has 22 MA's), (2, 32233), (6, 32296), (9, 32449), (12, 32512), (14, 32524), (18, 32563), (19, 32572), (20, 32590), (27, 32680), (32, 32743),

Gene: PhillyPhilly\_53 Start: 31731, Stop: 32309, Start Num: 1

Candidate Starts for PhillyPhilly\_53:

(Start: 1 @31731 has 22 MA's), (2, 31767), (6, 31830), (9, 31983), (12, 32046), (14, 32058), (18, 32097), (19, 32106), (20, 32124), (27, 32214), (32, 32277),

Gene: Pioneer3\_51 Start: 33043, Stop: 33624, Start Num: 1

Candidate Starts for Pioneer3\_51:

(Start: 1 @33043 has 22 MA's), (2, 33079), (3, 33118), (9, 33298), (12, 33361), (13, 33370), (14, 33373), (17, 33394), (21, 33457), (26, 33526), (27, 33529), (28, 33535), (29, 33547),

Gene: Platte\_51 Start: 32828, Stop: 33409, Start Num: 1

Candidate Starts for Platte\_51:

(Start: 1 @32828 has 22 MA's), (2, 32864), (3, 32903), (9, 33083), (12, 33146), (13, 33155), (14, 33158), (17, 33179), (21, 33242), (22, 33260), (26, 33311), (27, 33314), (28, 33320), (29, 33332),

Gene: Roman\_54 Start: 32198, Stop: 32776, Start Num: 1

Candidate Starts for Roman\_54:

(Start: 1 @32198 has 22 MA's), (2, 32234), (6, 32297), (9, 32450), (12, 32513), (14, 32525), (18, 32564), (20, 32591), (27, 32681), (32, 32744),

Gene: RunningBrook\_61 Start: 33522, Stop: 34094, Start Num: 1

Candidate Starts for RunningBrook\_61:

(Start: 1 @33522 has 22 MA's), (2, 33558), (5, 33618), (10, 33792), (16, 33864), (21, 33933), (23, 33966), (27, 33999),

Gene: StevieWelch\_59 Start: 32914, Stop: 33486, Start Num: 1

Candidate Starts for StevieWelch\_59:

(Start: 1 @32914 has 22 MA's), (2, 32950), (5, 33010), (16, 33256), (21, 33325), (23, 33358), (27, 33391),

Gene: Tandem\_51 Start: 32982, Stop: 33563, Start Num: 1

Candidate Starts for Tandem\_51:

(Start: 1 @32982 has 22 MA's), (2, 33018), (3, 33057), (9, 33237), (12, 33300), (13, 33309), (14, 33312), (17, 33333), (21, 33396), (22, 33414), (26, 33465), (27, 33468), (28, 33474), (29, 33486),

Gene: Welcome\_60 Start: 33279, Stop: 33851, Start Num: 1

Candidate Starts for Welcome\_60:

(Start: 1 @33279 has 22 MA's), (2, 33315), (5, 33375), (10, 33549), (16, 33621), (21, 33690), (23, 33723), (27, 33756),

Gene: Wolfstar\_55 Start: 33303, Stop: 33881, Start Num: 1

Candidate Starts for Wolfstar\_55:

(Start: 1 @33303 has 22 MA's), (2, 33339), (4, 33390), (9, 33555), (12, 33618), (14, 33630), (15, 33636), (16, 33645), (20, 33696), (31, 33828),

Gene: Yuma\_58 Start: 32848, Stop: 33420, Start Num: 1

Candidate Starts for Yuma\_58:

(Start: 1 @32848 has 22 MA's), (2, 32884), (5, 32944), (10, 33118), (16, 33190), (21, 33259), (23, 33292), (27, 33325),