

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 158087 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158087 has 29 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Rowa_22
- Track 2 : Alleb_56, Pioneer3_55, Tandem_55
- Track 3 : Platte_55
- Track 4 : OlinDD_55, Hortus1_55
- Track 5 : Jacko_59
- Track 6 : Erenyeager_63, Necrophoxinus_65, Welcome_64, DustyDino_66, Lyell_63, RunningBrook_65, StevieWelch_63, Yuma_62, Fork_59, ASegato_62, Musetta_63
- Track 7 : UtzChips_21, Barnstormer_21
- Track 8 : Cen1621_20
- Track 9 : Honk_20
- Track 10 : GardenState_22, IAmGroot_22
- Track 11 : Floof_22
- Track 12 : Zeta1847_20
- Track 13 : Caron_21
- Track 14 : BaileyBlu_20

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

The start number called the most often in the published annotations is 8, it was called in 9 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASegato_62, DustyDino_66, Erenyeager_63, Fork_59, Lyell_63, Musetta_63, Necrophoxinus_65, RunningBrook_65, StevieWelch_63, Welcome_64, Yuma_62,

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

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

- Alleb_56, BaileyBlu_20, Barnstormer_21, Caron_21, Cen1621_20, Floof_22, GardenState_22, Honk_20, Hortus1_55, IAmGroot_22, Jacko_59, OlinDD_55, Pioneer3_55, Platte_55, Rowa_22, Tandem_55, UtzChips_21, Zeta1847_20,

Summary by start number:

Start 4:

- Found in 3 of 29 (10.3%) of genes in pham
- Manual Annotations of this start: 3 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GardenState_22 (EH), IAmGroot_22 (EH), Zeta1847_20 (EH),

Start 6:

- Found in 1 of 29 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BaileyBlu_20 (FP),

Start 8:

- Found in 11 of 29 (37.9%) of genes in pham
- Manual Annotations of this start: 9 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASegato_62 (ED2), DustyDino_66 (ED2), Erenyeager_63 (ED2), Fork_59 (ED2), Lyell_63 (ED2), Musetta_63 (ED2), Necrophoxinus_65 (ED2), RunningBrook_65 (ED2), StevieWelch_63 (ED2), Welcome_64 (ED2), Yuma_62 (ED2),

Start 9:

- Found in 13 of 29 (44.8%) of genes in pham
- Manual Annotations of this start: 9 of 27
- Called 69.2% of time when present
- Phage (with cluster) where this start called: Alleb_56 (ED1), Cen1621_20 (EH), Floof_22 (EH), Honk_20 (EH), Hortus1_55 (ED1), Jacko_59 (ED1), OlinDD_55 (ED1), Pioneer3_55 (ED1), Tandem_55 (ED1),

Start 10:

- Found in 4 of 29 (13.8%) of genes in pham
- Manual Annotations of this start: 3 of 27
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Barnstormer_21 (EH), Caron_21 (EH), UtzChips_21 (EH),

Start 11:

- Found in 7 of 29 (24.1%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Platte_55 (ED1),

Start 12:

- Found in 1 of 29 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rowa_22 (BL),

Summary by clusters:

There are 5 clusters represented in this pham: ED2, FP, ED1, EH, BL,

Info for manual annotations of cluster BL:

- Start number 12 was manually annotated 1 time for cluster BL.

Info for manual annotations of cluster ED1:

- Start number 9 was manually annotated 6 times for cluster ED1.
- Start number 11 was manually annotated 1 time for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 8 was manually annotated 9 times for cluster ED2.

Info for manual annotations of cluster EH:

- Start number 4 was manually annotated 3 times for cluster EH.
- Start number 9 was manually annotated 3 times for cluster EH.
- Start number 10 was manually annotated 3 times for cluster EH.

Info for manual annotations of cluster FP:

- Start number 6 was manually annotated 1 time for cluster FP.

Gene Information:

Gene: ASegato_62 Start: 35643, Stop: 35921, Start Num: 8

Candidate Starts for ASegato_62:

(Start: 8 @35643 has 9 MA's), (13, 35664),

Gene: Alleb_56 Start: 35613, Stop: 35867, Start Num: 9

Candidate Starts for Alleb_56:

(2, 35481), (Start: 9 @35613 has 9 MA's), (Start: 11 @35622 has 1 MA's), (15, 35646), (20, 35685), (25, 35742), (33, 35844),

Gene: BaileyBlu_20 Start: 17646, Stop: 17921, Start Num: 6

Candidate Starts for BaileyBlu_20:

(Start: 6 @17646 has 1 MA's), (Start: 9 @17667 has 9 MA's), (14, 17694), (17, 17715), (18, 17727), (23, 17757), (31, 17889),

Gene: Barnstormer_21 Start: 18602, Stop: 18829, Start Num: 10

Candidate Starts for Barnstormer_21:

(Start: 10 @18602 has 3 MA's), (28, 18755),

Gene: Caron_21 Start: 17996, Stop: 18214, Start Num: 10

Candidate Starts for Caron_21:

(Start: 10 @17996 has 3 MA's),

Gene: Cen1621_20 Start: 17053, Stop: 17283, Start Num: 9

Candidate Starts for Cen1621_20:

(Start: 9 @17053 has 9 MA's), (28, 17209),

Gene: DustyDino_66 Start: 36241, Stop: 36519, Start Num: 8

Candidate Starts for DustyDino_66:

(Start: 8 @36241 has 9 MA's), (13, 36262),

Gene: Erenyeager_63 Start: 35633, Stop: 35911, Start Num: 8

Candidate Starts for Erenyeager_63:

(Start: 8 @35633 has 9 MA's), (13, 35654),

Gene: Floof_22 Start: 18710, Stop: 18940, Start Num: 9

Candidate Starts for Floof_22:

(Start: 9 @18710 has 9 MA's), (19, 18773), (22, 18797),

Gene: Fork_59 Start: 35293, Stop: 35571, Start Num: 8

Candidate Starts for Fork_59:

(Start: 8 @35293 has 9 MA's), (13, 35314),

Gene: GardenState_22 Start: 19038, Stop: 19304, Start Num: 4

Candidate Starts for GardenState_22:

(Start: 4 @19038 has 3 MA's), (7, 19065), (Start: 9 @19071 has 9 MA's),

Gene: Honk_20 Start: 16911, Stop: 17141, Start Num: 9

Candidate Starts for Honk_20:

(Start: 9 @16911 has 9 MA's), (16, 16947), (24, 17013), (28, 17067), (30, 17097),

Gene: Hortus1_55 Start: 35603, Stop: 35857, Start Num: 9

Candidate Starts for Hortus1_55:

(2, 35471), (Start: 9 @35603 has 9 MA's), (Start: 11 @35612 has 1 MA's), (15, 35636), (20, 35675), (25, 35732), (33, 35834),

Gene: IAmGroot_22 Start: 19699, Stop: 19965, Start Num: 4

Candidate Starts for IAmGroot_22:

(Start: 4 @19699 has 3 MA's), (7, 19726), (Start: 9 @19732 has 9 MA's),

Gene: Jacko_59 Start: 34558, Stop: 34809, Start Num: 9

Candidate Starts for Jacko_59:

(Start: 9 @34558 has 9 MA's), (Start: 11 @34567 has 1 MA's), (26, 34693), (27, 34699),

Gene: Lyell_63 Start: 35552, Stop: 35830, Start Num: 8

Candidate Starts for Lyell_63:

(Start: 8 @35552 has 9 MA's), (13, 35573),

Gene: Musetta_63 Start: 36013, Stop: 36291, Start Num: 8

Candidate Starts for Musetta_63:

(Start: 8 @36013 has 9 MA's), (13, 36034),

Gene: Necrophoxinus_65 Start: 36247, Stop: 36525, Start Num: 8

Candidate Starts for Necrophoxinus_65:

(Start: 8 @36247 has 9 MA's), (13, 36268),

Gene: OlinDD_55 Start: 35602, Stop: 35856, Start Num: 9

Candidate Starts for OlinDD_55:

(2, 35470), (Start: 9 @35602 has 9 MA's), (Start: 11 @35611 has 1 MA's), (15, 35635), (20, 35674), (25, 35731), (33, 35833),

Gene: Pioneer3_55 Start: 35610, Stop: 35864, Start Num: 9

Candidate Starts for Pioneer3_55:

(2, 35478), (Start: 9 @35610 has 9 MA's), (Start: 11 @35619 has 1 MA's), (15, 35643), (20, 35682), (25, 35739), (33, 35841),

Gene: Platte_55 Start: 35404, Stop: 35649, Start Num: 11

Candidate Starts for Platte_55:

(2, 35263), (Start: 9 @35395 has 9 MA's), (Start: 11 @35404 has 1 MA's), (15, 35428), (20, 35467), (25, 35524), (33, 35626),

Gene: Rowa_22 Start: 18255, Stop: 18494, Start Num: 12

Candidate Starts for Rowa_22:

(5, 18219), (Start: 12 @18255 has 1 MA's), (21, 18318), (29, 18420), (32, 18468), (33, 18474),

Gene: RunningBrook_65 Start: 36241, Stop: 36519, Start Num: 8

Candidate Starts for RunningBrook_65:

(Start: 8 @36241 has 9 MA's), (13, 36262),

Gene: StevieWelch_63 Start: 35633, Stop: 35911, Start Num: 8

Candidate Starts for StevieWelch_63:

(Start: 8 @35633 has 9 MA's), (13, 35654),

Gene: Tandem_55 Start: 35549, Stop: 35803, Start Num: 9

Candidate Starts for Tandem_55:

(2, 35417), (Start: 9 @35549 has 9 MA's), (Start: 11 @35558 has 1 MA's), (15, 35582), (20, 35621), (25, 35678), (33, 35780),

Gene: UtzChips_21 Start: 18590, Stop: 18817, Start Num: 10

Candidate Starts for UtzChips_21:

(Start: 10 @18590 has 3 MA's), (28, 18743),

Gene: Welcome_64 Start: 35998, Stop: 36276, Start Num: 8

Candidate Starts for Welcome_64:

(Start: 8 @35998 has 9 MA's), (13, 36019),

Gene: Yuma_62 Start: 35567, Stop: 35845, Start Num: 8

Candidate Starts for Yuma_62:

(Start: 8 @35567 has 9 MA's), (13, 35588),

Gene: Zeta1847_20 Start: 18641, Stop: 18922, Start Num: 4

Candidate Starts for Zeta1847_20:

(1, 18380), (3, 18620), (Start: 4 @18641 has 3 MA's), (Start: 10 @18677 has 3 MA's), (25, 18797), (29, 18845),