



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 86518 Report

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

Pham number 86518 has 24 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Togo_45
- Track 2 : RogerDodger_49, Danyall_48, Arri_49, Barb_48, Phlop_45, PullumCavea_45, Fugax_49, PinkCoffee_48, ClamChowder_48, Salvador_45, Halo3_47, Portcullis_48
- Track 3 : Evamon_45, Twister6_48, KimmyK_47
- Track 4 : Mutzi_46, Savbucketdawg_46, VanDeWege_49, Valary_48
- Track 5 : Wizard_45, Jambalaya_46
- Track 6 : Nubi_46, SmokingBunny_46

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

The start number called the most often in the published annotations is 3, it was called in 18 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arri_49, Barb_48, ClamChowder_48, Danyall_48, Fugax_49, Halo3_47, Mutzi_46, Nubi_46, Phlop_45, PinkCoffee_48, Portcullis_48, PullumCavea_45, RogerDodger_49, Salvador_45, Savbucketdawg_46, SmokingBunny_46, Valary_48, VanDeWege_49,

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

- Evamon_45, Jambalaya_46, KimmyK_47, Togo_45, Twister6_48, Wizard_45,

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

-

Summary by start number:

Start 1:

- Found in 21 of 24 (87.5%) of genes in pham
- Manual Annotations of this start: 5 of 24
- Called 23.8% of time when present
- Phage (with cluster) where this start called: Evamon_45 (DC1), Jambalaya_46 (DC1), KimmyK_47 (DC1), Twister6_48 (DC1), Wizard_45 (DC1),

Start 3:

- Found in 24 of 24 (100.0%) of genes in pham
- Manual Annotations of this start: 18 of 24
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Arri_49 (DC1), Barb_48 (DC1), ClamChowder_48 (DC1), Danyall_48 (DC1), Fugax_49 (DC1), Halo3_47 (DC1), Mutzi_46 (DC1), Nubi_46 (DC1), Phlop_45 (DC1), PinkCoffee_48 (DC1), Portcullis_48 (DC1), PullumCavea_45 (DC1), RogerDodger_49 (DC1), Salvador_45 (DC1), Savbucketdawg_46 (DC1), SmokingBunny_46 (DC1), Valary_48 (DC1), VanDeWege_49 (DC1),

Start 4:

- Found in 24 of 24 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 4.2% of time when present
- Phage (with cluster) where this start called: Togo_45 (DC1),

Summary by clusters:

There is one cluster represented in this pham: DC1

Info for manual annotations of cluster DC1:

- Start number 1 was manually annotated 5 times for cluster DC1.
- Start number 3 was manually annotated 18 times for cluster DC1.
- Start number 4 was manually annotated 1 time for cluster DC1.

Gene Information:

Gene: Arri_49 Start: 38554, Stop: 38057, Start Num: 3

Candidate Starts for Arri_49:

(Start: 1 @38584 has 5 MA's), (Start: 3 @38554 has 18 MA's), (Start: 4 @38548 has 1 MA's), (5, 38344), (6, 38263), (7, 38149), (8, 38089),

Gene: Barb_48 Start: 38673, Stop: 38176, Start Num: 3

Candidate Starts for Barb_48:

(Start: 1 @38703 has 5 MA's), (Start: 3 @38673 has 18 MA's), (Start: 4 @38667 has 1 MA's), (5, 38463), (6, 38382), (7, 38268), (8, 38208),

Gene: ClamChowder_48 Start: 38673, Stop: 38176, Start Num: 3

Candidate Starts for ClamChowder_48:

(Start: 1 @38703 has 5 MA's), (Start: 3 @38673 has 18 MA's), (Start: 4 @38667 has 1 MA's), (5, 38463), (6, 38382), (7, 38268), (8, 38208),

Gene: Danyall_48 Start: 38374, Stop: 37877, Start Num: 3

Candidate Starts for Danyall_48:

(Start: 1 @38404 has 5 MA's), (Start: 3 @38374 has 18 MA's), (Start: 4 @38368 has 1 MA's), (5, 38164), (6, 38083), (7, 37969), (8, 37909),

Gene: Evamon_45 Start: 38423, Stop: 37896, Start Num: 1

Candidate Starts for Evamon_45:

(Start: 1 @38423 has 5 MA's), (Start: 3 @38393 has 18 MA's), (Start: 4 @38387 has 1 MA's), (5, 38183), (6, 38102), (7, 37988), (8, 37928),

Gene: Fugax_49 Start: 38665, Stop: 38168, Start Num: 3

Candidate Starts for Fugax_49:

(Start: 1 @38695 has 5 MA's), (Start: 3 @38665 has 18 MA's), (Start: 4 @38659 has 1 MA's), (5, 38455), (6, 38374), (7, 38260), (8, 38200),

Gene: Halo3_47 Start: 39110, Stop: 38613, Start Num: 3

Candidate Starts for Halo3_47:

(Start: 1 @39140 has 5 MA's), (Start: 3 @39110 has 18 MA's), (Start: 4 @39104 has 1 MA's), (5, 38900), (6, 38819), (7, 38705), (8, 38645),

Gene: Jambalaya_46 Start: 38202, Stop: 37675, Start Num: 1

Candidate Starts for Jambalaya_46:

(Start: 1 @38202 has 5 MA's), (2, 38199), (Start: 3 @38172 has 18 MA's), (Start: 4 @38166 has 1 MA's), (5, 37962), (6, 37881), (7, 37767), (8, 37707),

Gene: KimmyK_47 Start: 39137, Stop: 38610, Start Num: 1

Candidate Starts for KimmyK_47:

(Start: 1 @39137 has 5 MA's), (Start: 3 @39107 has 18 MA's), (Start: 4 @39101 has 1 MA's), (5, 38897), (6, 38816), (7, 38702), (8, 38642),

Gene: Mutzi_46 Start: 39501, Stop: 39022, Start Num: 3

Candidate Starts for Mutzi_46:

(Start: 1 @39531 has 5 MA's), (2, 39528), (Start: 3 @39501 has 18 MA's), (Start: 4 @39495 has 1 MA's), (5, 39309), (6, 39228), (7, 39114), (8, 39054),

Gene: Nubi_46 Start: 38498, Stop: 38001, Start Num: 3

Candidate Starts for Nubi_46:

(Start: 3 @38498 has 18 MA's), (Start: 4 @38492 has 1 MA's), (5, 38288), (6, 38207), (7, 38093), (8, 38033),

Gene: Phlop_45 Start: 38579, Stop: 38082, Start Num: 3

Candidate Starts for Phlop_45:

(Start: 1 @38609 has 5 MA's), (Start: 3 @38579 has 18 MA's), (Start: 4 @38573 has 1 MA's), (5, 38369), (6, 38288), (7, 38174), (8, 38114),

Gene: PinkCoffee_48 Start: 38682, Stop: 38185, Start Num: 3

Candidate Starts for PinkCoffee_48:

(Start: 1 @38712 has 5 MA's), (Start: 3 @38682 has 18 MA's), (Start: 4 @38676 has 1 MA's), (5, 38472), (6, 38391), (7, 38277), (8, 38217),

Gene: Portcullis_48 Start: 38185, Stop: 37688, Start Num: 3

Candidate Starts for Portcullis_48:

(Start: 1 @38215 has 5 MA's), (Start: 3 @38185 has 18 MA's), (Start: 4 @38179 has 1 MA's), (5, 37975), (6, 37894), (7, 37780), (8, 37720),

Gene: PullumCavea_45 Start: 38579, Stop: 38082, Start Num: 3

Candidate Starts for PullumCavea_45:

(Start: 1 @38609 has 5 MA's), (Start: 3 @38579 has 18 MA's), (Start: 4 @38573 has 1 MA's), (5, 38369), (6, 38288), (7, 38174), (8, 38114),

Gene: RogerDodger_49 Start: 38722, Stop: 38225, Start Num: 3

Candidate Starts for RogerDodger_49:

(Start: 1 @38752 has 5 MA's), (Start: 3 @38722 has 18 MA's), (Start: 4 @38716 has 1 MA's), (5, 38512), (6, 38431), (7, 38317), (8, 38257),

Gene: Salvador_45 Start: 38391, Stop: 37894, Start Num: 3

Candidate Starts for Salvador_45:

(Start: 1 @38421 has 5 MA's), (Start: 3 @38391 has 18 MA's), (Start: 4 @38385 has 1 MA's), (5, 38181), (6, 38100), (7, 37986), (8, 37926),

Gene: Savbucketdawg_46 Start: 38172, Stop: 37675, Start Num: 3

Candidate Starts for Savbucketdawg_46:

(Start: 1 @38202 has 5 MA's), (2, 38199), (Start: 3 @38172 has 18 MA's), (Start: 4 @38166 has 1 MA's), (5, 37962), (6, 37881), (7, 37767), (8, 37707),

Gene: SmokingBunny_46 Start: 38484, Stop: 37987, Start Num: 3

Candidate Starts for SmokingBunny_46:

(Start: 3 @38484 has 18 MA's), (Start: 4 @38478 has 1 MA's), (5, 38274), (6, 38193), (7, 38079), (8, 38019),

Gene: Togo_45 Start: 38478, Stop: 37987, Start Num: 4

Candidate Starts for Togo_45:

(Start: 3 @38484 has 18 MA's), (Start: 4 @38478 has 1 MA's), (5, 38274), (6, 38193), (7, 38079), (8, 38019),

Gene: Twister6_48 Start: 38315, Stop: 37788, Start Num: 1

Candidate Starts for Twister6_48:

(Start: 1 @38315 has 5 MA's), (Start: 3 @38285 has 18 MA's), (Start: 4 @38279 has 1 MA's), (5, 38075), (6, 37994), (7, 37880), (8, 37820),

Gene: Valary_48 Start: 39327, Stop: 38830, Start Num: 3

Candidate Starts for Valary_48:

(Start: 1 @39357 has 5 MA's), (2, 39354), (Start: 3 @39327 has 18 MA's), (Start: 4 @39321 has 1 MA's), (5, 39117), (6, 39036), (7, 38922), (8, 38862),

Gene: VanDeWege_49 Start: 38619, Stop: 38122, Start Num: 3

Candidate Starts for VanDeWege_49:

(Start: 1 @38649 has 5 MA's), (2, 38646), (Start: 3 @38619 has 18 MA's), (Start: 4 @38613 has 1 MA's), (5, 38409), (6, 38328), (7, 38214), (8, 38154),

Gene: Wizard_45 Start: 38555, Stop: 38028, Start Num: 1

Candidate Starts for Wizard_45:

(Start: 1 @38555 has 5 MA's), (2, 38552), (Start: 3 @38525 has 18 MA's), (Start: 4 @38519 has 1 MA's), (5, 38315), (6, 38234), (7, 38120), (8, 38060),