

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 218289 Report

This analysis was run 03/28/25 on database version 593.

Pham number 218289 has 21 members, 1 are drafts.

Phages represented in each track:

• Track 1: LazerLemon 49

Track 2 : Microdon_47

Track 3 : Crosby_49

• Track 4 : Stuff 48

• Track 5 : Bosnia_80, Nymphadora_82, Eviarto_82, TimTam_82, Hugley_80,

Herod_82, BatStarr_81, Agueybana_83

Track 6: AlumE_80, Ohgeesy_82, BoyNamedSue_80, BaxterFox_83

Track 7 : Bialota_77, Zirinka_77

Track 8: Yeezy_84

• Track 9 : Powerball_74

Track 10 : TinyDot_65

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

The start number called the most often in the published annotations is 2, it was called in 16 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

Agueybana_83, AlumE_80, BatStarr_81, BaxterFox_83, Bialota_77, Bosnia_80, BoyNamedSue_80, Eviarto_82, Herod_82, Hugley_80, Nymphadora_82, Ohgeesy_82, Powerball_74, TimTam_82, TinyDot_65, Yeezy_84, Zirinka_77,

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:

Crosby_49, LazerLemon_49, Microdon_47, Stuff_48,

Summary by start number:

Start 1:

- Found in 3 of 21 (14.3%) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 33.3% of time when present

Phage (with cluster) where this start called: Microdon_47 (BH),

Start 2:

- Found in 17 of 21 (81.0%) 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: Agueybana_83 (CZ1), AlumE_80 (CZ1), BatStarr_81 (CZ1), BaxterFox_83 (CZ3), Bialota_77 (CZ1), Bosnia_80 (CZ1), BoyNamedSue_80 (CZ1), Eviarto_82 (CZ1), Herod_82 (CZ1), Hugley_80 (CZ1), Nymphadora_82 (CZ1), Ohgeesy_82 (CZ), Powerball_74 (CZ4), TimTam_82 (CZ1), TinyDot_65 (singleton), Yeezy_84 (CZ3), Zirinka_77 (CZ1),

Start 3:

- Found in 4 of 21 (19.0%) of genes in pham
- Manual Annotations of this start: 3 of 20
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Crosby_49 (BH), LazerLemon_49 (BH), Stuff_48 (BH),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, CZ3, CZ1, BH, CZ4, CZ,

Info for manual annotations of cluster BH:

- •Start number 1 was manually annotated 1 time for cluster BH.
- •Start number 3 was manually annotated 3 times for cluster BH.

Info for manual annotations of cluster CZ:

•Start number 2 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

•Start number 2 was manually annotated 11 times for cluster CZ1.

Info for manual annotations of cluster CZ3:

•Start number 2 was manually annotated 2 times for cluster CZ3.

Info for manual annotations of cluster CZ4:

•Start number 2 was manually annotated 1 time for cluster CZ4.

Gene Information:

Gene: Agueybana_83 Start: 51988, Stop: 52113, Start Num: 2

Candidate Starts for Agueybana_83:

(Start: 2 @51988 has 16 MA's), (5, 52009), (6, 52036), (11, 52105),

Gene: AlumE 80 Start: 51879, Stop: 52004, Start Num: 2

Candidate Starts for AlumE 80:

(Start: 2 @51879 has 16 MA's), (5, 51900), (6, 51927), (11, 51996),

Gene: BatStarr 81 Start: 52613, Stop: 52738, Start Num: 2

Candidate Starts for BatStarr_81:

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(Start: 2 @52613 has 16 MA's), (5, 52634), (6, 52661), (11, 52730),
Gene: BaxterFox_83 Start: 52809, Stop: 52934, Start Num: 2
Candidate Starts for BaxterFox_83:
(Start: 2 @ 52809 has 16 MA's), (5, 52830), (6, 52857), (11, 52926),
Gene: Bialota_77 Start: 51273, Stop: 51398, Start Num: 2
Candidate Starts for Bialota 77:
(Start: 2 @51273 has 16 MA's), (5, 51294), (6, 51321), (11, 51390),
Gene: Bosnia 80 Start: 53727, Stop: 53852, Start Num: 2
Candidate Starts for Bosnia 80:
(Start: 2 @53727 has 16 MA's), (5, 53748), (6, 53775), (11, 53844),
Gene: BoyNamedSue_80 Start: 51879, Stop: 52004, Start Num: 2
Candidate Starts for BoyNamedSue_80:
(Start: 2 @51879 has 16 MA's), (5, 51900), (6, 51927), (11, 51996),
Gene: Crosby_49 Start: 35531, Stop: 35650, Start Num: 3
Candidate Starts for Crosby_49:
(Start: 1 @35495 has 1 MA's), (Start: 3 @35531 has 3 MA's), (8, 35594), (9, 35597),
Gene: Eviarto 82 Start: 52588, Stop: 52713, Start Num: 2
Candidate Starts for Eviarto_82:
(Start: 2 @52588 has 16 MA's), (5, 52609), (6, 52636), (11, 52705),
Gene: Herod_82 Start: 53007, Stop: 53132, Start Num: 2
Candidate Starts for Herod 82:
(Start: 2 @ 53007 has 16 MA's), (5, 53028), (6, 53055), (11, 53124),
Gene: Hugley_80 Start: 52987, Stop: 53112, Start Num: 2
Candidate Starts for Hugley_80:
(Start: 2 @ 52987 has 16 MA's), (5, 53008), (6, 53035), (11, 53104),
Gene: LazerLemon_49 Start: 35882, Stop: 36004, Start Num: 3
Candidate Starts for LazerLemon_49:
(Start: 3 @ 35882 has 3 MA's), (8, 35945), (9, 35948), (10, 35978),
Gene: Microdon 47 Start: 35242, Stop: 35397, Start Num: 1
Candidate Starts for Microdon_47:
(Start: 1 @35242 has 1 MA's), (Start: 3 @35278 has 3 MA's), (8, 35341), (9, 35344),
Gene: Nymphadora_82 Start: 52612, Stop: 52737, Start Num: 2
Candidate Starts for Nymphadora 82:
(Start: 2 @ 52612 has 16 MA's), (5, 52633), (6, 52660), (11, 52729),
Gene: Ohgeesy_82 Start: 52151, Stop: 52276, Start Num: 2
Candidate Starts for Ohgeesy_82:
(Start: 2 @52151 has 16 MA's), (5, 52172), (6, 52199), (11, 52268),
Gene: Powerball_74 Start: 46806, Stop: 46940, Start Num: 2
Candidate Starts for Powerball 74:
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(Start: 2 @ 46806 has 16 MA's), (5, 46836), (6, 46863), (7, 46875), (11, 46932),

Gene: Stuff_48 Start: 35770, Stop: 35889, Start Num: 3

Candidate Starts for Stuff_48:

(Start: 1 @35734 has 1 MA's), (Start: 3 @35770 has 3 MA's), (8, 35833), (9, 35836), (10, 35866),

Gene: TimTam_82 Start: 52612, Stop: 52737, Start Num: 2

Candidate Starts for TimTam_82:

(Start: 2 @52612 has 16 MA's), (5, 52633), (6, 52660), (11, 52729),

Gene: TinyDot_65 Start: 39794, Stop: 39937, Start Num: 2

Candidate Starts for TinyDot_65:

(Start: 2 @39794 has 16 MA's), (4, 39806), (5, 39815), (12, 39923),

Gene: Yeezy_84 Start: 50665, Stop: 50799, Start Num: 2

Candidate Starts for Yeezy_84:

(Start: 2 @50665 has 16 MA's), (6, 50722), (7, 50734),

Gene: Zirinka_77 Start: 51261, Stop: 51386, Start Num: 2

Candidate Starts for Zirinka_77:

(Start: 2 @51261 has 16 MA's), (5, 51282), (6, 51309), (11, 51378),