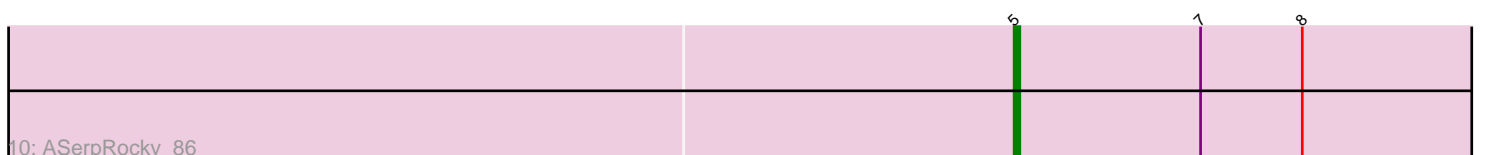
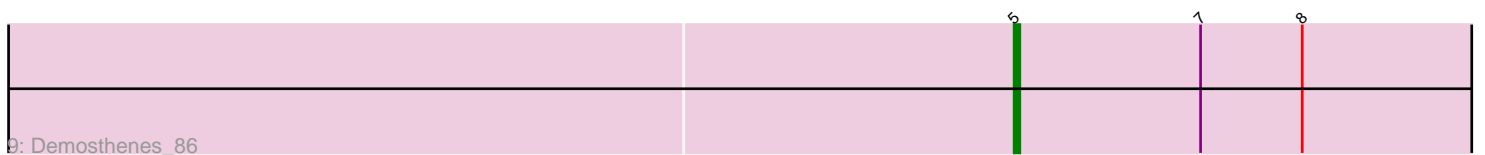
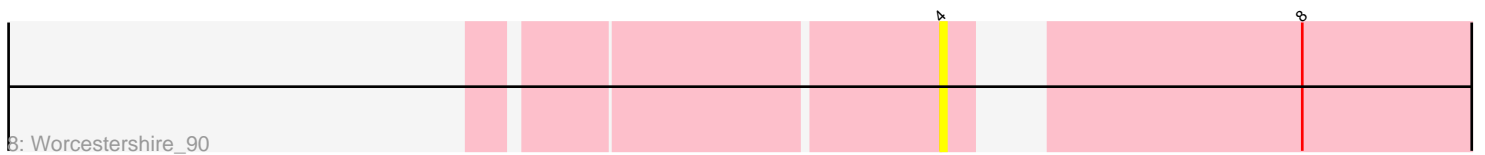
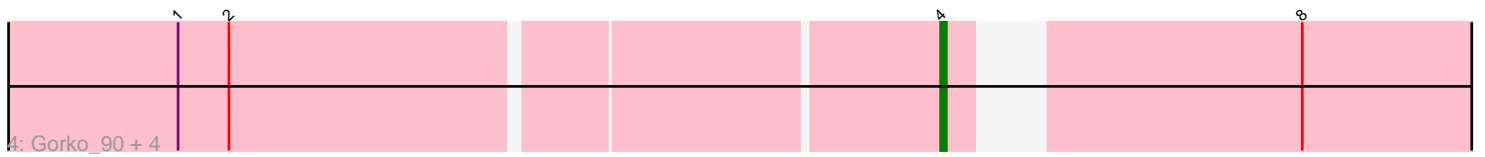


Pham 308933



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 308933 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308933 has 37 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Butterball_92, Monty_91, Hotorobo_93, Breezic_92, Adgers_94, BirksAndSocks_94, FelixAlejandro_94, John316_94, CathyBurgh_91, Boneham_93, Flakey_92, BillyBobJr_95, Ekhein_93, GourdThymes_91, Sam12_90, Lizzo_91, Exiguo_90, Sombrero_92, Kelzog_93, Beaver_94, CinnamonToast_95
- Track 2 : Eggsie_88
- Track 3 : Dakiti_93, BenoitCattle_93, PierreThree_91, Crete_92
- Track 4 : Gorko_90, Msay19_95, RemRem_94, Poland_95, Squibbles_91
- Track 5 : BigShaq_92
- Track 6 : Jellybones_92
- Track 7 : Barbochs_88
- Track 8 : Worcestershire_90
- Track 9 : Demosthenes_86
- Track 10 : ASerpRocky_86

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

The start number called the most often in the published annotations is 4, it was called in 30 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers_94, Barbochs_88, Beaver_94, BenoitCattle_93, BigShaq_92, BillyBobJr_95, BirksAndSocks_94, Boneham_93, Breezic_92, Butterball_92, CathyBurgh_91, CinnamonToast_95, Crete_92, Dakiti_93, Eggsie_88, Ekhein_93, Exiguo_90, FelixAlejandro_94, Flakey_92, Gorko_90, GourdThymes_91, Hotorobo_93, Jellybones_92, John316_94, Kelzog_93, Lizzo_91, Monty_91, Msay19_95, PierreThree_91, Poland_95, RemRem_94, Sam12_90, Sombrero_92, Squibbles_91, Worcestershire_90,

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

-

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

- ASerpRocky_86, Demosthenes_86,

Summary by start number:

Start 4:

- Found in 35 of 37 (94.6%) of genes in pham
- Manual Annotations of this start: 30 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adgers_94 (CS2), Barbochs_88 (CS2), Beaver_94 (CS2), BenoitCattle_93 (CS2), BigShaq_92 (CS2), BillyBobJr_95 (CS2), BirksAndSocks_94 (CS2), Boneham_93 (CS2), Breezic_92 (CS2), Butterball_92 (CS2), CathyBurgh_91 (CS2), CinnamonToast_95 (CS2), Crete_92 (CS2), Dakiti_93 (CS2), Eggsie_88 (CS2), Ekhein_93 (CS2), Exiguo_90 (CS2), FelixAlejandro_94 (CS2), Flakey_92 (CS2), Gorko_90 (CS2), GourdThymes_91 (CS2), Hotorobo_93 (CS2), Jellybones_92 (CS2), John316_94 (CS2), Kelzog_93 (CS2), Lizzo_91 (CS2), Monty_91 (CS2), Msay19_95 (CS2), PierreThree_91 (CS2), Poland_95 (CS2), RemRem_94 (CS2), Sam12_90 (CS2), Sombrero_92 (CS2), Squibbles_91 (CS2), Worcestershire_90 (CS2),

Start 5:

- Found in 2 of 37 (5.4%) of genes in pham
- Manual Annotations of this start: 2 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASerpRocky_86 (CS4), Demosthenes_86 (CS4),

Summary by clusters:

There are 2 clusters represented in this pham: CS4, CS2,

Info for manual annotations of cluster CS2:

- Start number 4 was manually annotated 30 times for cluster CS2.

Info for manual annotations of cluster CS4:

- Start number 5 was manually annotated 2 times for cluster CS4.

Gene Information:

Gene: ASerpRocky_86 Start: 69698, Stop: 69555, Start Num: 5

Candidate Starts for ASerpRocky_86:

(Start: 5 @69698 has 2 MA's), (7, 69665), (8, 69647),

Gene: Adgers_94 Start: 68719, Stop: 68573, Start Num: 4

Candidate Starts for Adgers_94:

(Start: 4 @68719 has 30 MA's), (8, 68668),

Gene: Barbochs_88 Start: 67889, Stop: 67743, Start Num: 4

Candidate Starts for Barbochs_88:

(Start: 4 @67889 has 30 MA's), (6, 67874), (8, 67838),

Gene: Beaver_94 Start: 70060, Stop: 69914, Start Num: 4

Candidate Starts for Beaver_94:

(Start: 4 @70060 has 30 MA's), (8, 70009),

Gene: BenoitCattle_93 Start: 69455, Stop: 69306, Start Num: 4
Candidate Starts for BenoitCattle_93:
(1, 69584), (2, 69575), (Start: 4 @69455 has 30 MA's),

Gene: BigShaq_92 Start: 69045, Stop: 68896, Start Num: 4
Candidate Starts for BigShaq_92:
(Start: 4 @69045 has 30 MA's),

Gene: BillyBobJr_95 Start: 70167, Stop: 70033, Start Num: 4
Candidate Starts for BillyBobJr_95:
(Start: 4 @70167 has 30 MA's), (8, 70116),

Gene: BirksAndSocks_94 Start: 69674, Stop: 69528, Start Num: 4
Candidate Starts for BirksAndSocks_94:
(Start: 4 @69674 has 30 MA's), (8, 69623),

Gene: Boneham_93 Start: 69599, Stop: 69453, Start Num: 4
Candidate Starts for Boneham_93:
(Start: 4 @69599 has 30 MA's), (8, 69548),

Gene: Breezic_92 Start: 68590, Stop: 68444, Start Num: 4
Candidate Starts for Breezic_92:
(Start: 4 @68590 has 30 MA's), (8, 68539),

Gene: Butterball_92 Start: 69604, Stop: 69458, Start Num: 4
Candidate Starts for Butterball_92:
(Start: 4 @69604 has 30 MA's), (8, 69553),

Gene: CathyBurgh_91 Start: 68620, Stop: 68474, Start Num: 4
Candidate Starts for CathyBurgh_91:
(Start: 4 @68620 has 30 MA's), (8, 68569),

Gene: CinnamonToast_95 Start: 70167, Stop: 70033, Start Num: 4
Candidate Starts for CinnamonToast_95:
(Start: 4 @70167 has 30 MA's), (8, 70116),

Gene: Crete_92 Start: 69228, Stop: 69079, Start Num: 4
Candidate Starts for Crete_92:
(1, 69357), (2, 69348), (Start: 4 @69228 has 30 MA's),

Gene: Dakiti_93 Start: 70135, Stop: 69986, Start Num: 4
Candidate Starts for Dakiti_93:
(1, 70264), (2, 70255), (Start: 4 @70135 has 30 MA's),

Gene: Demosthenes_86 Start: 69564, Stop: 69421, Start Num: 5
Candidate Starts for Demosthenes_86:
(Start: 5 @69564 has 2 MA's), (7, 69531), (8, 69513),

Gene: Eggsie_88 Start: 67165, Stop: 67031, Start Num: 4
Candidate Starts for Eggsie_88:
(3, 67222), (Start: 4 @67165 has 30 MA's),

Gene: Ekhein_93 Start: 68634, Stop: 68488, Start Num: 4
Candidate Starts for Ekhein_93:
(Start: 4 @68634 has 30 MA's), (8, 68583),

Gene: Exiguo_90 Start: 68059, Stop: 67913, Start Num: 4
Candidate Starts for Exiguo_90:
(Start: 4 @68059 has 30 MA's), (8, 68008),

Gene: FelixAlejandro_94 Start: 70117, Stop: 69983, Start Num: 4
Candidate Starts for FelixAlejandro_94:
(Start: 4 @70117 has 30 MA's), (8, 70066),

Gene: Flakey_92 Start: 69531, Stop: 69385, Start Num: 4
Candidate Starts for Flakey_92:
(Start: 4 @69531 has 30 MA's), (8, 69480),

Gene: Gorko_90 Start: 67803, Stop: 67657, Start Num: 4
Candidate Starts for Gorko_90:
(1, 67932), (2, 67923), (Start: 4 @67803 has 30 MA's), (8, 67752),

Gene: GourdThymes_91 Start: 68647, Stop: 68501, Start Num: 4
Candidate Starts for GourdThymes_91:
(Start: 4 @68647 has 30 MA's), (8, 68596),

Gene: Hotorobo_93 Start: 69508, Stop: 69362, Start Num: 4
Candidate Starts for Hotorobo_93:
(Start: 4 @69508 has 30 MA's), (8, 69457),

Gene: Jellybones_92 Start: 69805, Stop: 69659, Start Num: 4
Candidate Starts for Jellybones_92:
(1, 69934), (2, 69925), (Start: 4 @69805 has 30 MA's), (8, 69754),

Gene: John316_94 Start: 69761, Stop: 69615, Start Num: 4
Candidate Starts for John316_94:
(Start: 4 @69761 has 30 MA's), (8, 69710),

Gene: Kelzog_93 Start: 69034, Stop: 68888, Start Num: 4
Candidate Starts for Kelzog_93:
(Start: 4 @69034 has 30 MA's), (8, 68983),

Gene: Lizzo_91 Start: 68620, Stop: 68474, Start Num: 4
Candidate Starts for Lizzo_91:
(Start: 4 @68620 has 30 MA's), (8, 68569),

Gene: Monty_91 Start: 68322, Stop: 68176, Start Num: 4
Candidate Starts for Monty_91:
(Start: 4 @68322 has 30 MA's), (8, 68271),

Gene: Msay19_95 Start: 70400, Stop: 70266, Start Num: 4
Candidate Starts for Msay19_95:
(1, 70529), (2, 70520), (Start: 4 @70400 has 30 MA's), (8, 70349),

Gene: PierreThree_91 Start: 69766, Stop: 69617, Start Num: 4

Candidate Starts for PierreThree_91:
(1, 69895), (2, 69886), (Start: 4 @69766 has 30 MA's),

Gene: Poland_95 Start: 70382, Stop: 70236, Start Num: 4
Candidate Starts for Poland_95:
(1, 70511), (2, 70502), (Start: 4 @70382 has 30 MA's), (8, 70331),

Gene: RemRem_94 Start: 68617, Stop: 68471, Start Num: 4
Candidate Starts for RemRem_94:
(1, 68746), (2, 68737), (Start: 4 @68617 has 30 MA's), (8, 68566),

Gene: Sam12_90 Start: 68056, Stop: 67910, Start Num: 4
Candidate Starts for Sam12_90:
(Start: 4 @68056 has 30 MA's), (8, 68005),

Gene: Sombrero_92 Start: 68684, Stop: 68550, Start Num: 4
Candidate Starts for Sombrero_92:
(Start: 4 @68684 has 30 MA's), (8, 68633),

Gene: Squibbles_91 Start: 69137, Stop: 68991, Start Num: 4
Candidate Starts for Squibbles_91:
(1, 69266), (2, 69257), (Start: 4 @69137 has 30 MA's), (8, 69086),

Gene: Worcestershire_90 Start: 68042, Stop: 67896, Start Num: 4
Candidate Starts for Worcestershire_90:
(Start: 4 @68042 has 30 MA's), (8, 67991),