



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 86618 Report

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

Pham number 86618 has 21 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Anon_94
- Track 2 : Boohoo_91, KatherineG_91, Nebulosus_89, JSwag_92, Anaysia_92
- Track 3 : MinecraftSteve_93, Soups_92, DekHockey33_94, ReMo_90, ShayRa_90, Epsocamisio_90, Looper_89, Strosahl_93, Remus_93, Battleship_95, Rosalind_91, Oofda_92
- Track 4 : Waits_92
- Track 5 : Switzerland_90
- Track 6 : Nedarya_90

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 19 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anaysia_92, Anon_94, Battleship_95, Boohoo_91, DekHockey33_94, Epsocamisio_90, JSwag_92, KatherineG_91, Looper_89, MinecraftSteve_93, Nebulosus_89, Nedarya_90, Oofda_92, ReMo_90, Remus_93, Rosalind_91, ShayRa_90, Soups_92, Strosahl_93, Waits_92,

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

- Switzerland_90,

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

-

Summary by start number:

Start 2:

- Found in 21 of 21 (100.0%) of genes in pham
- Manual Annotations of this start: 19 of 20
- Called 95.2% of time when present
- Phage (with cluster) where this start called: Anaysia_92 (A15), Anon_94 (A15), Battleship_95 (A15), Boohoo_91 (A15), DekHockey33_94 (A15), Epsocamisio_90

(A15), JSwag_92 (A15), KatherineG_91 (A15), Looper_89 (A15), MinecraftSteve_93 (A15), Nebulosus_89 (A15), Nedarya_90 (A15), Oofda_92 (A15), ReMo_90 (A15), Remus_93 (A15), Rosalind_91 (A15), ShayRa_90 (A15), Soups_92 (A15), Strosahl_93 (A15), Waits_92 (A15),

Start 3:

- Found in 21 of 21 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 4.8% of time when present
- Phage (with cluster) where this start called: Switzerland_90 (A15),

Summary by clusters:

There is one cluster represented in this pham: A15

Info for manual annotations of cluster A15:

- Start number 2 was manually annotated 19 times for cluster A15.
- Start number 3 was manually annotated 1 time for cluster A15.

Gene Information:

Gene: Anaysia_92 Start: 48457, Stop: 48290, Start Num: 2

Candidate Starts for Anaysia_92:

(Start: 2 @48457 has 19 MA's), (Start: 3 @48442 has 1 MA's), (5, 48388), (6, 48379), (7, 48352), (9, 48316),

Gene: Anon_94 Start: 49014, Stop: 48847, Start Num: 2

Candidate Starts for Anon_94:

(1, 49128), (Start: 2 @49014 has 19 MA's), (Start: 3 @48999 has 1 MA's), (4, 48975), (5, 48945), (8, 48891),

Gene: Battleship_95 Start: 48443, Stop: 48276, Start Num: 2

Candidate Starts for Battleship_95:

(Start: 2 @48443 has 19 MA's), (Start: 3 @48428 has 1 MA's), (5, 48374), (6, 48365), (9, 48302),

Gene: Boohoo_91 Start: 47774, Stop: 47607, Start Num: 2

Candidate Starts for Boohoo_91:

(Start: 2 @47774 has 19 MA's), (Start: 3 @47759 has 1 MA's), (5, 47705), (6, 47696), (7, 47669), (9, 47633),

Gene: DekHockey33_94 Start: 48528, Stop: 48361, Start Num: 2

Candidate Starts for DekHockey33_94:

(Start: 2 @48528 has 19 MA's), (Start: 3 @48513 has 1 MA's), (5, 48459), (6, 48450), (9, 48387),

Gene: Epsocamisio_90 Start: 48124, Stop: 47957, Start Num: 2

Candidate Starts for Epsocamisio_90:

(Start: 2 @48124 has 19 MA's), (Start: 3 @48109 has 1 MA's), (5, 48055), (6, 48046), (9, 47983),

Gene: JSwag_92 Start: 47972, Stop: 47805, Start Num: 2

Candidate Starts for JSwag_92:

(Start: 2 @47972 has 19 MA's), (Start: 3 @47957 has 1 MA's), (5, 47903), (6, 47894), (7, 47867), (9, 47831),

Gene: KatherineG_91 Start: 48112, Stop: 47945, Start Num: 2

Candidate Starts for KatherineG_91:

(Start: 2 @48112 has 19 MA's), (Start: 3 @48097 has 1 MA's), (5, 48043), (6, 48034), (7, 48007), (9, 47971),

Gene: Looper_89 Start: 47064, Stop: 46897, Start Num: 2

Candidate Starts for Looper_89:

(Start: 2 @47064 has 19 MA's), (Start: 3 @47049 has 1 MA's), (5, 46995), (6, 46986), (9, 46923),

Gene: MinecraftSteve_93 Start: 48239, Stop: 48072, Start Num: 2

Candidate Starts for MinecraftSteve_93:

(Start: 2 @48239 has 19 MA's), (Start: 3 @48224 has 1 MA's), (5, 48170), (6, 48161), (9, 48098),

Gene: Nebulosus_89 Start: 47772, Stop: 47605, Start Num: 2

Candidate Starts for Nebulosus_89:

(Start: 2 @47772 has 19 MA's), (Start: 3 @47757 has 1 MA's), (5, 47703), (6, 47694), (7, 47667), (9, 47631),

Gene: Nedarya_90 Start: 48654, Stop: 48487, Start Num: 2

Candidate Starts for Nedarya_90:

(Start: 2 @48654 has 19 MA's), (Start: 3 @48639 has 1 MA's), (5, 48585), (9, 48513),

Gene: Oofda_92 Start: 48501, Stop: 48334, Start Num: 2

Candidate Starts for Oofda_92:

(Start: 2 @48501 has 19 MA's), (Start: 3 @48486 has 1 MA's), (5, 48432), (6, 48423), (9, 48360),

Gene: ReMo_90 Start: 48198, Stop: 48031, Start Num: 2

Candidate Starts for ReMo_90:

(Start: 2 @48198 has 19 MA's), (Start: 3 @48183 has 1 MA's), (5, 48129), (6, 48120), (9, 48057),

Gene: Remus_93 Start: 48536, Stop: 48369, Start Num: 2

Candidate Starts for Remus_93:

(Start: 2 @48536 has 19 MA's), (Start: 3 @48521 has 1 MA's), (5, 48467), (6, 48458), (9, 48395),

Gene: Rosalind_91 Start: 47876, Stop: 47709, Start Num: 2

Candidate Starts for Rosalind_91:

(Start: 2 @47876 has 19 MA's), (Start: 3 @47861 has 1 MA's), (5, 47807), (6, 47798), (9, 47735),

Gene: ShayRa_90 Start: 46830, Stop: 46663, Start Num: 2

Candidate Starts for ShayRa_90:

(Start: 2 @46830 has 19 MA's), (Start: 3 @46815 has 1 MA's), (5, 46761), (6, 46752), (9, 46689),

Gene: Soups_92 Start: 48353, Stop: 48186, Start Num: 2

Candidate Starts for Soups_92:

(Start: 2 @48353 has 19 MA's), (Start: 3 @48338 has 1 MA's), (5, 48284), (6, 48275), (9, 48212),

Gene: Strosahl_93 Start: 48536, Stop: 48369, Start Num: 2

Candidate Starts for Strosahl_93:

(Start: 2 @48536 has 19 MA's), (Start: 3 @48521 has 1 MA's), (5, 48467), (6, 48458), (9, 48395),

Gene: Switzerland_90 Start: 47784, Stop: 47632, Start Num: 3

Candidate Starts for Switzerland_90:

(Start: 2 @47799 has 19 MA's), (Start: 3 @47784 has 1 MA's), (5, 47730), (6, 47721), (9, 47658),

Gene: Waits_92 Start: 48167, Stop: 48000, Start Num: 2

Candidate Starts for Waits_92:

(Start: 2 @48167 has 19 MA's), (Start: 3 @48152 has 1 MA's), (4, 48128), (5, 48098), (6, 48089), (9, 48026),