

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 224888 Report

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

Pham number 224888 has 21 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Farewell 49
- Track 2 : Sparky_48
- Track 3 : JustASigh_47
- Track 4 : DirtyBoi 43
- Track 5 : RayTheFireFly 48
- Track 6: GEazy_45, HannahD_43
- Track 7 : BBQValindra 40
- Track 8 : Hedwig 44
- Track 9: PeggyLeg03_39, Pucara_36, Karkharias_39
- Track 10 : HotPotato_38
- Track 11: Scotia 33, NoSwimming 35
- Track 12 : CocoCinnamon 38
- Track 13 : Gudmit_37Track 14 : Eyre_37
- Track 15 : P3MA 41
- Track 16 : Spartoi 39
- Track 17 : Shambre1 37

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

The start number called the most often in the published annotations is 31, it was called in 4 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

DirtyBoi_43, Eyre_37, Hedwig_44, JustASigh_47,

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

• CocoCinnamon_38, Gudmit_37, HotPotato_38, Karkharias_39, NoSwimming_35, PeggyLeg03_39, Pucara_36, RayTheFireFly_48, Scotia_33, Shambre1_37, Spartoi_39,

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

• BBQValindra_40, Farewell_49, GEazy_45, HannahD_43, P3MA_41, Sparky_48,

Summary by start number:

Start 3:

- Found in 3 of 21 (14.3%) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Karkharias_39 (FA), PeggyLeg03_39 (FA), Pucara_36 (FA),

Start 6:

- Found in 2 of 21 (9.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoSwimming_35 (FO), Scotia_33 (FO),

Start 9:

- Found in 5 of 21 (23.8%) of genes in pham
- No Manual Annotations of this start.
- Called 40.0% of time when present
- Phage (with cluster) where this start called: CocoCinnamon_38 (FO), HotPotato_38 (FA),

Start 12:

- Found in 5 of 21 (23.8%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Spartoi_39 (singleton),

Start 15:

- Found in 3 of 21 (14.3%) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BBQValindra_40 (DB), GEazy_45 (DB), HannahD_43 (DB),

Start 18:

- Found in 4 of 21 (19.0%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Sparky 48 (AF),

Start 21:

- Found in 6 of 21 (28.6%) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Gudmit_37 (singleton), P3MA_41 (singleton), RayTheFireFly_48 (DB),

Start 22:

- Found in 4 of 21 (19.0%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Shambre1_37 (singleton),

Start 23:

- Found in 5 of 21 (23.8%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Farewell_49 (AF),

Start 31:

- Found in 15 of 21 (71.4%) of genes in pham
- Manual Annotations of this start: 4 of 16
- Called 26.7% of time when present
- Phage (with cluster) where this start called: DirtyBoi_43 (DB), Eyre_37 (singleton), Hedwig_44 (DB), JustASigh_47 (AH),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, AF, AH, DB, FA, FO,

Info for manual annotations of cluster AF:

- •Start number 18 was manually annotated 1 time for cluster AF.
- •Start number 23 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster AH:

•Start number 31 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster DB:

- •Start number 15 was manually annotated 3 times for cluster DB.
- •Start number 21 was manually annotated 1 time for cluster DB.
- •Start number 31 was manually annotated 2 times for cluster DB.

Info for manual annotations of cluster FA:

•Start number 3 was manually annotated 2 times for cluster FA.

Gene Information:

Gene: BBQValindra 40 Start: 33028, Stop: 33285, Start Num: 15

Candidate Starts for BBQValindra_40:

(Start: 15 @33028 has 3 MA's), (Start: 23 @33061 has 1 MA's), (42, 33217), (47, 33256),

Gene: CocoCinnamon 38 Start: 26265, Stop: 26552, Start Num: 9

Candidate Starts for CocoCinnamon_38:

(9, 26265), (Start: 31 @26364 has 4 MA's), (45, 26499), (46, 26505),

Gene: DirtyBoi_43 Start: 31965, Stop: 32165, Start Num: 31

Candidate Starts for DirtyBoi_43:

(Start: 21 @31917 has 3 MA's), (Start: 31 @31965 has 4 MA's), (36, 32013), (39, 32052), (44, 32094), (46, 32106), (49, 32154),

Gene: Eyre_37 Start: 28147, Stop: 28335, Start Num: 31

Candidate Starts for Eyre_37:

(10, 28051), (13, 28060), (Start: 21 @28096 has 3 MA's), (Start: 31 @28147 has 4 MA's), (36, 28195),

Gene: Farewell_49 Start: 36104, Stop: 36349, Start Num: 23

Candidate Starts for Farewell_49:

(7, 36020), (17, 36077), (Start: 18 @ 36083 has 1 MA's), (20, 36092), (Start: 22 @ 36101 has 1 MA's), (Start: 23 @ 36104 has 1 MA's), (24, 36113), (27, 36125), (29, 36137), (30, 36152), (36, 36209),

Gene: GEazy 45 Start: 32607, Stop: 32864, Start Num: 15

Candidate Starts for GEazy_45:

(Start: 15 @32607 has 3 MA's), (Start: 23 @32640 has 1 MA's), (39, 32772), (42, 32796),

Gene: Gudmit 37 Start: 27130, Stop: 27366, Start Num: 21

Candidate Starts for Gudmit_37:

(Start: 21 @27130 has 3 MA's), (Start: 31 @27181 has 4 MA's), (35, 27223), (45, 27316), (48, 27355),

Gene: HannahD_43 Start: 31974, Stop: 32231, Start Num: 15

Candidate Starts for HannahD_43:

(Start: 15 @31974 has 3 MA's), (Start: 23 @32007 has 1 MA's), (39, 32139), (42, 32163),

Gene: Hedwig_44 Start: 32388, Stop: 32588, Start Num: 31

Candidate Starts for Hedwig 44:

(Start: 21 @32340 has 3 MA's), (Start: 31 @32388 has 4 MA's), (36, 32436), (39, 32475), (44, 32517),

Gene: HotPotato_38 Start: 28340, Stop: 28639, Start Num: 9

Candidate Starts for HotPotato 38:

(4, 28298), (9, 28340), (29, 28424), (Start: 31 @28448 has 4 MA's), (38, 28523), (45, 28583),

Gene: JustASigh 47 Start: 34656, Stop: 34838, Start Num: 31

Candidate Starts for JustASigh_47:

(11, 34569), (16, 34587), (28, 34629), (Start: 31 @34656 has 4 MA's), (33, 34671), (36, 34704), (43, 34782),

Gene: Karkharias_39 Start: 28202, Stop: 28516, Start Num: 3

Candidate Starts for Karkharias 39:

(1, 28181), (2, 28190), (Start: 3 @28202 has 2 MA's), (9, 28250), (Start: 12 @28259 has 1 MA's), (29, 28301), (Start: 31 @28325 has 4 MA's),

Gene: NoSwimming_35 Start: 27992, Stop: 28291, Start Num: 6

Candidate Starts for NoSwimming_35:

(6, 27992), (Start: 18 @28046 has 1 MA's), (Start: 31 @28103 has 4 MA's),

Gene: P3MA_41 Start: 31039, Stop: 31272, Start Num: 21

Candidate Starts for P3MA 41:

(13, 31003), (Start: 21 @31039 has 3 MA's), (25, 31048), (29, 31066), (35, 31132), (37, 31147), (38, 31165), (39, 31177),

Gene: PeggyLeg03_39 Start: 28437, Stop: 28751, Start Num: 3

Candidate Starts for PeggyLeg03_39:

(1, 28416), (2, 28425), (Start: 3 @28437 has 2 MA's), (9, 28485), (Start: 12 @28494 has 1 MA's), (29, 28536), (Start: 31 @28560 has 4 MA's),

Gene: Pucara 36 Start: 28042, Stop: 28356, Start Num: 3

Candidate Starts for Pucara_36:

(1, 28021), (2, 28030), (Start: 3 @28042 has 2 MA's), (9, 28090), (Start: 12 @28099 has 1 MA's), (29, 28141), (Start: 31 @28165 has 4 MA's),

Gene: RayTheFireFly_48 Start: 33514, Stop: 33762, Start Num: 21

Candidate Starts for RayTheFireFly_48:

(5, 33430), (8, 33442), (10, 33469), (13, 33478), (Start: 21 @33514 has 3 MA's), (Start: 31 @33562 has 4 MA's), (36, 33610), (39, 33649), (44, 33691),

Gene: Scotia_33 Start: 27033, Stop: 27332, Start Num: 6

Candidate Starts for Scotia_33:

(6, 27033), (Start: 18 @27087 has 1 MA's), (Start: 31 @27144 has 4 MA's),

Gene: Shambre1_37 Start: 25536, Stop: 25748, Start Num: 22

Candidate Starts for Shambre1_37:

(7, 25458), (Start: 12 @25494 has 1 MA's), (14, 25503), (19, 25524), (Start: 22 @25536 has 1 MA's), (Start: 31 @25587 has 4 MA's), (38, 25662), (41, 25695),

Gene: Sparky_48 Start: 36514, Stop: 36780, Start Num: 18

Candidate Starts for Sparky 48:

(7, 36451), (17, 36508), (Start: 18 @ 36514 has 1 MA's), (20, 36523), (Start: 22 @ 36532 has 1 MA's), (Start: 23 @ 36535 has 1 MA's), (24, 36544), (27, 36556), (29, 36568), (30, 36583), (36, 36640),

Gene: Spartoi_39 Start: 26733, Stop: 26978, Start Num: 12

Candidate Starts for Spartoi_39:

(Start: 12 @26733 has 1 MA's), (Start: 22 @26757 has 1 MA's), (26, 26763), (Start: 31 @26799 has 4 MA's), (32, 26805), (34, 26820), (40, 26898), (45, 26934),