

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 311935 Report

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

Pham number 311935 has 26 members, 2 are drafts.

Phages represented in each track:

- Track 1 : JCole_36
- Track 2 : DearBasketball_32
- Track 3 : SpongeBob_31, Jamie19_31, Shweta_31, Andies_31, Snekmaggon_31, MichelleMyBell_32
- Track 4 : Panchino_30
- Track 5 : Duplicity_34
- Track 6 : Chewbacca_34, Phloss_31, Carcharodon_34, Silvafighter_34, Melville_35
- Track 7 : Tapioca_35
- Track 8 : Butters_35
- Track 9 : Gex_34, Fulbright_33, Xerxes_34, Magsby_34
- Track 10 : Smurph_34, Parmesanjohn_34
- Track 11 : Schnauzer_34, Pipsqueaks_34
- Track 12 : Tessdabest_33

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

The start number called the most often in the published annotations is 10, it was called in 12 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Andies_31, Duplicity_34, Jamie19_31, MichelleMyBell_32, Panchino_30, Parmesanjohn_34, Pipsqueaks_34, Schnauzer_34, Shweta_31, Smurph_34, Snekmaggon_31, SpongeBob_31,

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

- Butters_35, Fulbright_33, Gex_34, Magsby_34, Tapioca_35, Tessdabest_33, Xerxes_34,

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

- Carcharodon_34, Chewbacca_34, DearBasketball_32, JCole_36, Melville_35, Phloss_31, Silvafighter_34,

Summary by start number:

Start 4:

- Found in 1 of 26 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Butters_35 (N),

Start 10:

- Found in 19 of 26 (73.1%) of genes in pham
- Manual Annotations of this start: 12 of 24
- Called 63.2% of time when present
- Phage (with cluster) where this start called: Andies_31 (N), Duplicity_34 (N), Jamie19_31 (N), MichelleMyBell_32 (N), Panchino_30 (N), Parmesanjohn_34 (N), Pipsqueaks_34 (N), Schnauzer_34 (N), Shweta_31 (N), Smurph_34 (N), Snekmaggon_31 (N), SpongeBob_31 (N),

Start 12:

- Found in 18 of 26 (69.2%) of genes in pham
- Manual Annotations of this start: 4 of 24
- Called 27.8% of time when present
- Phage (with cluster) where this start called: Fulbright_33 (N), Gex_34 (N), Magsby_34 (N), Tessdabest_33 (N), Xerxes_34 (N),

Start 13:

- Found in 19 of 26 (73.1%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Tapioca_35 (N),

Start 14:

- Found in 1 of 26 (3.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DearBasketball_32 (DY),

Start 15:

- Found in 1 of 26 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JCole_36 (CZ2),

Start 20:

- Found in 18 of 26 (69.2%) of genes in pham
- Manual Annotations of this start: 5 of 24
- Called 27.8% of time when present
- Phage (with cluster) where this start called: Carcharodon_34 (N), Chewbacca_34 (N), Melville_35 (N), Phloss_31 (N), Silvafighter_34 (N),

Summary by clusters:

There are 3 clusters represented in this pham: CZ2, DY, N,

Info for manual annotations of cluster CZ2:

- Start number 15 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster N:

- Start number 4 was manually annotated 1 time for cluster N.
- Start number 10 was manually annotated 12 times for cluster N.
- Start number 12 was manually annotated 4 times for cluster N.
- Start number 13 was manually annotated 1 time for cluster N.
- Start number 20 was manually annotated 5 times for cluster N.

Gene Information:

Gene: Andies_31 Start: 26518, Stop: 25991, Start Num: 10

Candidate Starts for Andies_31:

(Start: 10 @26518 has 12 MA's), (Start: 12 @26494 has 4 MA's), (Start: 13 @26491 has 1 MA's), (18, 26440), (Start: 20 @26347 has 5 MA's), (23, 26284), (24, 26281), (28, 26206), (29, 26203), (31, 26161), (33, 26140), (34, 26137), (36, 26086), (37, 26083), (39, 26032),

Gene: Butters_35 Start: 28070, Stop: 27438, Start Num: 4

Candidate Starts for Butters_35:

(Start: 4 @28070 has 1 MA's), (8, 28010), (9, 27977), (Start: 10 @27965 has 12 MA's), (Start: 13 @27938 has 1 MA's), (17, 27911), (18, 27887), (19, 27866), (Start: 20 @27797 has 5 MA's), (23, 27734), (28, 27656), (29, 27653), (31, 27611), (33, 27590), (34, 27587), (36, 27536),

Gene: Carcharodon_34 Start: 27178, Stop: 26705, Start Num: 20

Candidate Starts for Carcharodon_34:

(Start: 20 @27178 has 5 MA's), (23, 27115), (24, 27112), (28, 27037), (29, 27034), (31, 26992), (33, 26971), (34, 26968), (36, 26917), (37, 26914), (39, 26863), (41, 26788), (42, 26740),

Gene: Chewbacca_34 Start: 27178, Stop: 26705, Start Num: 20

Candidate Starts for Chewbacca_34:

(Start: 20 @27178 has 5 MA's), (23, 27115), (24, 27112), (28, 27037), (29, 27034), (31, 26992), (33, 26971), (34, 26968), (36, 26917), (37, 26914), (39, 26863), (41, 26788), (42, 26740),

Gene: DearBasketball_32 Start: 25245, Stop: 24769, Start Num: 14

Candidate Starts for DearBasketball_32:

(6, 25368), (11, 25257), (14, 25245), (16, 25236), (24, 25050), (25, 25014), (26, 24993), (27, 24990), (30, 24948), (32, 24915), (35, 24882), (38, 24825), (40, 24795),

Gene: Duplicity_34 Start: 27338, Stop: 26694, Start Num: 10

Candidate Starts for Duplicity_34:

(Start: 10 @27338 has 12 MA's), (Start: 12 @27314 has 4 MA's), (Start: 13 @27311 has 1 MA's), (18, 27260), (Start: 20 @27167 has 5 MA's), (23, 27104), (24, 27101), (28, 27026), (29, 27023), (31, 26981), (33, 26960), (34, 26957), (36, 26906), (37, 26903), (39, 26852), (41, 26777), (42, 26729),

Gene: Fulbright_33 Start: 26394, Stop: 25891, Start Num: 12

Candidate Starts for Fulbright_33:

(Start: 10 @26418 has 12 MA's), (Start: 12 @26394 has 4 MA's), (Start: 13 @26391 has 1 MA's), (18, 26340), (21, 26223), (24, 26181), (28, 26106), (29, 26103), (31, 26061), (33, 26040), (34, 26037), (36, 25986), (37, 25983), (39, 25932),

Gene: Gex_34 Start: 27321, Stop: 26818, Start Num: 12

Candidate Starts for Gex_34:

(Start: 10 @27345 has 12 MA's), (Start: 12 @27321 has 4 MA's), (Start: 13 @27318 has 1 MA's), (18, 27267), (21, 27150), (24, 27108), (28, 27033), (29, 27030), (31, 26988), (33, 26967), (34, 26964), (36, 26913), (37, 26910), (39, 26859),

Gene: JCole_36 Start: 27334, Stop: 26837, Start Num: 15

Candidate Starts for JCole_36:

(1, 27604), (2, 27592), (3, 27541), (5, 27475), (7, 27427), (Start: 15 @27334 has 1 MA's), (22, 27166), (27, 27079), (30, 27034), (32, 27001), (35, 26968), (38, 26911),

Gene: Jamie19_31 Start: 26399, Stop: 25872, Start Num: 10

Candidate Starts for Jamie19_31:

(Start: 10 @26399 has 12 MA's), (Start: 12 @26375 has 4 MA's), (Start: 13 @26372 has 1 MA's), (18, 26321), (Start: 20 @26228 has 5 MA's), (23, 26165), (24, 26162), (28, 26087), (29, 26084), (31, 26042), (33, 26021), (34, 26018), (36, 25967), (37, 25964), (39, 25913),

Gene: Magsby_34 Start: 27322, Stop: 26819, Start Num: 12

Candidate Starts for Magsby_34:

(Start: 10 @27346 has 12 MA's), (Start: 12 @27322 has 4 MA's), (Start: 13 @27319 has 1 MA's), (18, 27268), (21, 27151), (24, 27109), (28, 27034), (29, 27031), (31, 26989), (33, 26968), (34, 26965), (36, 26914), (37, 26911), (39, 26860),

Gene: Melville_35 Start: 27179, Stop: 26706, Start Num: 20

Candidate Starts for Melville_35:

(Start: 20 @27179 has 5 MA's), (23, 27116), (24, 27113), (28, 27038), (29, 27035), (31, 26993), (33, 26972), (34, 26969), (36, 26918), (37, 26915), (39, 26864), (41, 26789), (42, 26741),

Gene: MichelleMyBell_32 Start: 26337, Stop: 25810, Start Num: 10

Candidate Starts for MichelleMyBell_32:

(Start: 10 @26337 has 12 MA's), (Start: 12 @26313 has 4 MA's), (Start: 13 @26310 has 1 MA's), (18, 26259), (Start: 20 @26166 has 5 MA's), (23, 26103), (24, 26100), (28, 26025), (29, 26022), (31, 25980), (33, 25959), (34, 25956), (36, 25905), (37, 25902), (39, 25851),

Gene: Panchino_30 Start: 27745, Stop: 27215, Start Num: 10

Candidate Starts for Panchino_30:

(Start: 10 @27745 has 12 MA's), (Start: 12 @27721 has 4 MA's), (Start: 13 @27718 has 1 MA's), (18, 27667), (Start: 20 @27574 has 5 MA's), (23, 27511), (24, 27508), (28, 27433), (29, 27430), (31, 27388), (33, 27367), (34, 27364), (36, 27313),

Gene: Parmesanjohn_34 Start: 27349, Stop: 26822, Start Num: 10

Candidate Starts for Parmesanjohn_34:

(Start: 10 @27349 has 12 MA's), (Start: 12 @27325 has 4 MA's), (Start: 13 @27322 has 1 MA's), (18, 27271), (21, 27154), (24, 27112), (28, 27037), (29, 27034), (31, 26992), (33, 26971), (34, 26968), (36, 26917), (37, 26914), (39, 26863),

Gene: Phloss_31 Start: 26605, Stop: 26132, Start Num: 20

Candidate Starts for Phloss_31:

(Start: 20 @26605 has 5 MA's), (23, 26542), (24, 26539), (28, 26464), (29, 26461), (31, 26419), (33, 26398), (34, 26395), (36, 26344), (37, 26341), (39, 26290), (41, 26215), (42, 26167),

Gene: Pipsqueaks_34 Start: 27326, Stop: 26799, Start Num: 10

Candidate Starts for Pipsqueaks_34:

(Start: 10 @27326 has 12 MA's), (Start: 12 @27302 has 4 MA's), (Start: 13 @27299 has 1 MA's), (18, 27248), (Start: 20 @27155 has 5 MA's), (21, 27131), (23, 27092), (24, 27089), (28, 27014), (29, 27011), (31, 26969), (33, 26948), (34, 26945), (36, 26894), (37, 26891), (39, 26840),

Gene: Schnauzer_34 Start: 27349, Stop: 26822, Start Num: 10

Candidate Starts for Schnauzer_34:

(Start: 10 @27349 has 12 MA's), (Start: 12 @27325 has 4 MA's), (Start: 13 @27322 has 1 MA's), (18, 27271), (Start: 20 @27178 has 5 MA's), (21, 27154), (23, 27115), (24, 27112), (28, 27037), (29, 27034), (31, 26992), (33, 26971), (34, 26968), (36, 26917), (37, 26914), (39, 26863),

Gene: Shweta_31 Start: 26529, Stop: 26002, Start Num: 10

Candidate Starts for Shweta_31:

(Start: 10 @26529 has 12 MA's), (Start: 12 @26505 has 4 MA's), (Start: 13 @26502 has 1 MA's), (18, 26451), (Start: 20 @26358 has 5 MA's), (23, 26295), (24, 26292), (28, 26217), (29, 26214), (31, 26172), (33, 26151), (34, 26148), (36, 26097), (37, 26094), (39, 26043),

Gene: Silvafighter_34 Start: 27171, Stop: 26698, Start Num: 20

Candidate Starts for Silvafighter_34:

(Start: 20 @27171 has 5 MA's), (23, 27108), (24, 27105), (28, 27030), (29, 27027), (31, 26985), (33, 26964), (34, 26961), (36, 26910), (37, 26907), (39, 26856), (41, 26781), (42, 26733),

Gene: Smurph_34 Start: 27349, Stop: 26822, Start Num: 10

Candidate Starts for Smurph_34:

(Start: 10 @27349 has 12 MA's), (Start: 12 @27325 has 4 MA's), (Start: 13 @27322 has 1 MA's), (18, 27271), (21, 27154), (24, 27112), (28, 27037), (29, 27034), (31, 26992), (33, 26971), (34, 26968), (36, 26917), (37, 26914), (39, 26863),

Gene: Snekmaggedon_31 Start: 26399, Stop: 25872, Start Num: 10

Candidate Starts for Snekmaggedon_31:

(Start: 10 @26399 has 12 MA's), (Start: 12 @26375 has 4 MA's), (Start: 13 @26372 has 1 MA's), (18, 26321), (Start: 20 @26228 has 5 MA's), (23, 26165), (24, 26162), (28, 26087), (29, 26084), (31, 26042), (33, 26021), (34, 26018), (36, 25967), (37, 25964), (39, 25913),

Gene: SpongeBob_31 Start: 26399, Stop: 25872, Start Num: 10

Candidate Starts for SpongeBob_31:

(Start: 10 @26399 has 12 MA's), (Start: 12 @26375 has 4 MA's), (Start: 13 @26372 has 1 MA's), (18, 26321), (Start: 20 @26228 has 5 MA's), (23, 26165), (24, 26162), (28, 26087), (29, 26084), (31, 26042), (33, 26021), (34, 26018), (36, 25967), (37, 25964), (39, 25913),

Gene: Tapioca_35 Start: 27288, Stop: 26671, Start Num: 13

Candidate Starts for Tapioca_35:

(Start: 10 @27315 has 12 MA's), (Start: 12 @27291 has 4 MA's), (Start: 13 @27288 has 1 MA's), (18, 27237), (Start: 20 @27144 has 5 MA's), (23, 27081), (24, 27078), (28, 27003), (29, 27000), (31, 26958), (33, 26937), (34, 26934), (36, 26883), (37, 26880), (39, 26829), (41, 26754), (42, 26706),

Gene: Tessdabest_33 Start: 27322, Stop: 26702, Start Num: 12

Candidate Starts for Tessdabest_33:

(Start: 10 @27346 has 12 MA's), (Start: 12 @27322 has 4 MA's), (Start: 13 @27319 has 1 MA's), (18, 27268), (Start: 20 @27175 has 5 MA's), (23, 27112), (24, 27109), (28, 27034), (29, 27031), (31, 26989), (33, 26968), (34, 26965), (36, 26914), (37, 26911), (39, 26860), (41, 26785), (42, 26737),

Gene: Xerxes_34 Start: 27322, Stop: 26819, Start Num: 12

Candidate Starts for Xerxes_34:

(Start: 10 @27346 has 12 MA's), (Start: 12 @27322 has 4 MA's), (Start: 13 @27319 has 1 MA's), (18, 27268), (21, 27151), (24, 27109), (28, 27034), (29, 27031), (31, 26989), (33, 26968), (34, 26965), (36, 26914), (37, 26911), (39, 26860),