

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 163853 Report

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

Pham number 163853 has 28 members, 2 are drafts.

Phages represented in each track:

- Track 1: Corvo_25, Target_27, Snazzy_23, Pinto_27, Hermia_27, Zeeculate_24, Atkinbua 26
- Track 2 : Wheeler 80
- Track 3: Wheeler 74
- Track 4 : Seabiscuit 76
- Track 5 : Samisti12_29, EGole_30
- Track 6 : Bmoc 151
- Track 7: TunaTartare 203
- Track 8 : Jada_198, Forrest_200
 Track 9 : TunaTartare_133
- Track 10 : Dorin 38
- Track 11 : Gsput1 52
- Track 12 : JonJames_149
- Track 13 : Yvonnetastic_146
- Track 14 : SpeedDemon 970
- Track 15: Wanda 52, DmpstrDiver 47, Minerva 52, Duke13 49, Optimus 51, BAKA 50

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

The start number called the most often in the published annotations is 17, it was called in 7 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

Atkinbua_26, Corvo_25, Hermia_27, Pinto_27, Snazzy_23, Target_27, Zeeculate 24.

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

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

 BAKA_50, Bmoc_151, DmpstrDiver_47, Dorin_38, Duke13_49, EGole_30, Forrest_200, Gsput1_52, Jada_198, JonJames_149, Minerva_52, Optimus_51, Samisti12_29, Seabiscuit_76, SpeedDemon_970, TunaTartare_133,

TunaTartare_203, Wanda_52, Wheeler_74, Wheeler_80, Yvonnetastic_146,

Summary by start number:

Start 2:

- Found in 3 of 28 (10.7%) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 66.7% of time when present
- Phage (with cluster) where this start called: EGole_30 (BE1), Samisti12_29 (BE1),

Start 5:

- Found in 1 of 28 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TunaTartare_203 (BK1),

Start 8:

- Found in 1 of 28 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yvonnetastic_146 (DD),

Start 11:

- Found in 1 of 28 (3.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dorin_38 (CG),

Start 13:

- Found in 1 of 28 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wheeler 74 (A1),

Start 15:

- Found in 6 of 28 (21.4%) of genes in pham
- Manual Annotations of this start: 6 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAKA_50 (J), DmpstrDiver_47 (J), Duke13_49 (J), Minerva_52 (J), Optimus_51 (J), Wanda_52 (J),

Start 17:

- Found in 7 of 28 (25.0%) of genes in pham
- Manual Annotations of this start: 7 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atkinbua_26 (A1), Corvo_25 (A1), Hermia_27 (A1), Pinto_27 (A1), Snazzy_23 (A1), Target_27 (A1), Zeeculate_24 (A1),

Start 18:

- Found in 2 of 28 (7.1%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Wheeler 80 (A1).

Start 19:

- Found in 1 of 28 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JonJames_149 (DD),

Start 21:

- Found in 10 of 28 (35.7%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Seabiscuit_76 (A1),

Start 22:

- Found in 5 of 28 (17.9%) of genes in pham
- Manual Annotations of this start: 5 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bmoc_151 (BE1), Forrest_200 (BK1), Jada_198 (BK1), SpeedDemon_970 (DL), TunaTartare_133 (BK1),

Start 23:

- Found in 1 of 28 (3.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gsput1_52 (CU2),

Summary by clusters:

There are 8 clusters represented in this pham: DL, CU2, DD, J, CG, A1, BK1, BE1,

Info for manual annotations of cluster A1:

- •Start number 13 was manually annotated 1 time for cluster A1.
- •Start number 17 was manually annotated 7 times for cluster A1.
- •Start number 18 was manually annotated 1 time for cluster A1.
- •Start number 21 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster BE1:

- •Start number 2 was manually annotated 2 times for cluster BE1.
- •Start number 22 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BK1:

- •Start number 5 was manually annotated 1 time for cluster BK1.
- •Start number 22 was manually annotated 3 times for cluster BK1.

Info for manual annotations of cluster DD:

- •Start number 8 was manually annotated 1 time for cluster DD.
- •Start number 19 was manually annotated 1 time for cluster DD.

Info for manual annotations of cluster DL:

•Start number 22 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster J:

•Start number 15 was manually annotated 6 times for cluster J.

Gene Information:

Gene: Atkinbua 26 Start: 18768, Stop: 19268, Start Num: 17

Candidate Starts for Atkinbua 26:

(Start: 17 @18768 has 7 MA's), (Start: 21 @18774 has 1 MA's), (33, 18930), (44, 18990), (69, 19170), (76, 19221),

Gene: BAKA 50 Start: 40286, Stop: 40870, Start Num: 15

Candidate Starts for BAKA_50:

(Start: 15 @ 40286 has 6 MA's), (25, 40328), (34, 40499), (36, 40514), (60, 40739), (68, 40802),

Gene: Bmoc 151 Start: 88009, Stop: 88512, Start Num: 22

Candidate Starts for Bmoc 151:

(16, 87994), (Start: 22 @88009 has 5 MA's),

Gene: Corvo_25 Start: 19271, Stop: 19771, Start Num: 17

Candidate Starts for Corvo 25:

(Start: 17 @19271 has 7 MA's), (Start: 21 @19277 has 1 MA's), (33, 19433), (44, 19493), (69, 19673), (76, 19724),

Gene: DmpstrDiver 47 Start: 39715, Stop: 40299, Start Num: 15

Candidate Starts for DmpstrDiver 47:

(Start: 15 @39715 has 6 MA's), (25, 39757), (34, 39928), (36, 39943), (60, 40168), (68, 40231),

Gene: Dorin_38 Start: 19007, Stop: 19627, Start Num: 11

Candidate Starts for Dorin 38:

(11, 19007), (20, 19049), (27, 19121), (31, 19220), (37, 19238), (39, 19268), (47, 19355), (48, 19358), (54, 19382), (71, 19535), (80, 19607), (83, 19619),

Gene: Duke13 49 Start: 40033, Stop: 40617, Start Num: 15

Candidate Starts for Duke13_49:

(Start: 15 @40033 has 6 MA's), (25, 40075), (34, 40246), (36, 40261), (60, 40486), (68, 40549),

Gene: EGole 30 Start: 14796, Stop: 14044, Start Num: 2

Candidate Starts for EGole 30:

(Start: 2 @ 14796 has 2 MA's), (6, 14712), (57, 14301), (67, 14205),

Gene: Forrest 200 Start: 100263, Stop: 100757, Start Num: 22

Candidate Starts for Forrest_200:

(Start: 22 @100263 has 5 MA's), (50, 100536), (59, 100596), (62, 100620), (72, 100692),

Gene: Gsput1_52 Start: 36371, Stop: 36856, Start Num: 23

Candidate Starts for Gsput1 52:

(Start: 21 @36365 has 1 MA's), (23, 36371), (49, 36620), (52, 36629), (55, 36638), (76, 36812), (79, 36839),

Gene: Hermia 27 Start: 19855, Stop: 20355, Start Num: 17

Candidate Starts for Hermia_27:

(Start: 17 @19855 has 7 MA's), (Start: 21 @19861 has 1 MA's), (33, 20017), (44, 20077), (69, 20257), (76, 20308),

Gene: Jada_198 Start: 99135, Stop: 99629, Start Num: 22

Candidate Starts for Jada_198:

(Start: 22 @99135 has 5 MA's), (50, 99408), (59, 99468), (62, 99492), (72, 99564),

Gene: JonJames_149 Start: 83143, Stop: 83742, Start Num: 19

Candidate Starts for JonJames_149:

(Start: 19 @83143 has 1 MA's), (24, 83161), (26, 83185), (32, 83338), (33, 83341), (72, 83647),

Gene: Minerva 52 Start: 41582, Stop: 42166, Start Num: 15

Candidate Starts for Minerva_52:

(Start: 15 @41582 has 6 MA's), (25, 41624), (34, 41795), (36, 41810), (60, 42035), (68, 42098),

Gene: Optimus_51 Start: 41167, Stop: 41751, Start Num: 15

Candidate Starts for Optimus 51:

(Start: 15 @41167 has 6 MA's), (25, 41209), (34, 41380), (36, 41395), (60, 41620), (68, 41683),

Gene: Pinto_27 Start: 18931, Stop: 19431, Start Num: 17

Candidate Starts for Pinto 27:

(Start: 17 @18931 has 7 MA's), (Start: 21 @18937 has 1 MA's), (33, 19093), (44, 19153), (69, 19333), (76, 19384),

Gene: Samisti12_29 Start: 14403, Stop: 13651, Start Num: 2

Candidate Starts for Samisti12_29:

(Start: 2 @14403 has 2 MA's), (6, 14319), (57, 13908), (67, 13812),

Gene: Seabiscuit_76 Start: 46023, Stop: 45430, Start Num: 21

Candidate Starts for Seabiscuit_76:

(4, 46128), (Start: 18 @46026 has 1 MA's), (Start: 21 @46023 has 1 MA's), (30, 45912), (35, 45831), (74, 45501), (78, 45459),

Gene: Snazzy_23 Start: 18265, Stop: 18765, Start Num: 17

Candidate Starts for Snazzy_23:

(Start: 17 @18265 has 7 MA's), (Start: 21 @18271 has 1 MA's), (33, 18427), (44, 18487), (69, 18667), (76, 18718),

Gene: SpeedDemon_970 Start: 66680, Stop: 66057, Start Num: 22

Candidate Starts for SpeedDemon_970:

(1, 66839), (7, 66737), (Start: 22 @66680 has 5 MA's), (41, 66401), (51, 66314), (56, 66299), (75, 66143), (76, 66131), (81, 66092),

Gene: Target_27 Start: 19834, Stop: 20334, Start Num: 17

Candidate Starts for Target 27:

(Start: 17 @19834 has 7 MA's), (Start: 21 @19840 has 1 MA's), (33, 19996), (44, 20056), (69, 20236), (76, 20287),

Gene: TunaTartare_203 Start: 105397, Stop: 105966, Start Num: 5

Candidate Starts for TunaTartare_203:

(Start: 5 @105397 has 1 MA's), (42, 105688), (43, 105694), (46, 105724), (53, 105748), (64, 105829), (66, 105838), (82, 105958),

Gene: TunaTartare_133 Start: 80340, Stop: 80837, Start Num: 22

Candidate Starts for TunaTartare_133:

(Start: 22 @80340 has 5 MA's), (38, 80529), (53, 80631), (58, 80664), (66, 80730), (78, 80832),

Gene: Wanda_52 Start: 40059, Stop: 40643, Start Num: 15

Candidate Starts for Wanda 52:

(Start: 15 @ 40059 has 6 MA's), (25, 40101), (34, 40272), (36, 40287), (60, 40512), (68, 40575),

Gene: Wheeler_80 Start: 48775, Stop: 48179, Start Num: 18

Candidate Starts for Wheeler_80:

(4, 48877), (Start: 18 @48775 has 1 MA's), (Start: 21 @48772 has 1 MA's), (30, 48661), (35, 48580), (74, 48250), (78, 48208),

Gene: Wheeler_74 Start: 46185, Stop: 45562, Start Num: 13

Candidate Starts for Wheeler_74:

(Start: 2 @46296 has 2 MA's), (3, 46287), (12, 46194), (Start: 13 @46185 has 1 MA's), (14, 46173), (45, 45846), (65, 45687), (66, 45681), (73, 45627),

Gene: Yvonnetastic_146 Start: 79771, Stop: 80427, Start Num: 8

Candidate Starts for Yvonnetastic_146:

(Start: 8 @79771 has 1 MA's), (9, 79774), (10, 79777), (28, 79924), (29, 79927), (40, 80071), (61, 80257), (63, 80266), (70, 80323), (77, 80365),

Gene: Zeeculate_24 Start: 19013, Stop: 19513, Start Num: 17

Candidate Starts for Zeeculate_24:

(Start: 17 @19013 has 7 MA's), (Start: 21 @19019 has 1 MA's), (33, 19175), (44, 19235), (69, 19415), (76, 19466),