

Pham 170251



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 170251 Report

This analysis was run 07/09/24 on database version 566.

Pham number 170251 has 26 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Vendetta_52, Splinter_52
- Track 2 : Goib_53
- Track 3 : TinaLin_51, Banquo_51
- Track 4 : TZGordon_54
- Track 5 : Dardanus_47
- Track 6 : Catfish_50
- Track 7 : Cardigan_119
- Track 8 : Yvonnestic_115
- Track 9 : Daredevil_78
- Track 10 : Mollymur_88
- Track 11 : Jinkies_48
- Track 12 : Phonegingi_42
- Track 13 : Blett_42, Bush_43
- Track 14 : Appa_42, Dropshot_42
- Track 15 : Pickles13_41
- Track 16 : Warren_42
- Track 17 : MenE_46, Antuna_43
- Track 18 : ThulaThula_70
- Track 19 : MrSmee_55
- Track 20 : ArV2_59
- Track 21 : Footloose_57

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

The start number called the most often in the published annotations is 6, it was called in 11 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antuna_43, Appa_42, Blett_42, Bush_43, Cardigan_119, Daredevil_78, Dropshot_42, Jinkies_48, MenE_46, Mollymur_88, MrSmee_55, Phonegingi_42, Pickles13_41, Warren_42,

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

- Banquo_51, Dardanus_47, Goib_53, Splinter_52, TZGordon_54, TinaLin_51, Vendetta_52,

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

- ArV2_59, Catfish_50, Footloose_57, ThulaThula_70, Yvonnetastic_115,

Summary by start number:

Start 3:

- Found in 1 of 26 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ThulaThula_70 (P5),

Start 4:

- Found in 2 of 26 (7.7%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV2_59 (singleton), Catfish_50 (CU5),

Start 5:

- Found in 1 of 26 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yvonnetastic_115 (DD),

Start 6:

- Found in 21 of 26 (80.8%) of genes in pham
- Manual Annotations of this start: 11 of 22
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Antuna_43 (GA), Appa_42 (GA), Blett_42 (GA), Bush_43 (GA), Cardigan_119 (DD), Daredevil_78 (DL), Dropshot_42 (GA), Jinkies_48 (FL), MenE_46 (GA), Mollymur_88 (DL), MrSmee_55 (UNK), Phoningi_42 (GA), Pickles13_41 (GA), Warren_42 (GA),

Start 9:

- Found in 4 of 26 (15.4%) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Goib_53 (CU1), TZGordon_54 (CU1),

Start 11:

- Found in 11 of 26 (42.3%) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Dardanus_47 (CU3), Footloose_57 (singleton),

Start 12:

- Found in 5 of 26 (19.2%) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Banquo_51 (CU1), TinaLin_51 (CU1),

Start 17:

- Found in 7 of 26 (26.9%) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Splinter_52 (CU1), Vendetta_52 (CU1),

Summary by clusters:

There are 10 clusters represented in this pham: DL, CU3, CU1, P5, DD, CU5, GA, singleton, UNK, FL,

Info for manual annotations of cluster CU1:

- Start number 9 was manually annotated 2 times for cluster CU1.
- Start number 12 was manually annotated 2 times for cluster CU1.
- Start number 17 was manually annotated 2 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 11 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU5:

- Start number 4 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DD:

- Start number 5 was manually annotated 1 time for cluster DD.

Info for manual annotations of cluster DL:

- Start number 6 was manually annotated 2 times for cluster DL.

Info for manual annotations of cluster FL:

- Start number 6 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster GA:

- Start number 6 was manually annotated 8 times for cluster GA.

Info for manual annotations of cluster P5:

- Start number 3 was manually annotated 1 time for cluster P5.

Gene Information:

Gene: Antuna_43 Start: 26101, Stop: 26937, Start Num: 6

Candidate Starts for Antuna_43:

(Start: 6 @26101 has 11 MA's), (Start: 11 @26146 has 2 MA's), (23, 26227), (28, 26248), (34, 26284), (47, 26479), (61, 26650), (65, 26734), (74, 26806), (75, 26812), (87, 26917),

Gene: Appa_42 Start: 26023, Stop: 26835, Start Num: 6

Candidate Starts for Appa_42:

(Start: 6 @26023 has 11 MA's), (Start: 11 @26068 has 2 MA's), (23, 26149), (28, 26170), (34, 26206), (61, 26548), (65, 26632), (74, 26704), (75, 26710), (87, 26815),

Gene: ArV2_59 Start: 32108, Stop: 32857, Start Num: 4

Candidate Starts for ArV2_59:

(Start: 4 @32108 has 1 MA's), (10, 32150), (Start: 11 @32165 has 2 MA's), (Start: 17 @32204 has 2 MA's), (20, 32222), (27, 32270), (49, 32495), (51, 32507), (64, 32669), (71, 32714),

Gene: Banquo_51 Start: 32896, Stop: 33726, Start Num: 12

Candidate Starts for Banquo_51:

(Start: 6 @32848 has 11 MA's), (Start: 12 @32896 has 2 MA's), (23, 32986), (25, 32998), (29, 33010), (35, 33055), (36, 33067), (41, 33157), (43, 33208), (55, 33349), (72, 33565), (88, 33694),

Gene: Blett_42 Start: 26203, Stop: 27036, Start Num: 6

Candidate Starts for Blett_42:

(Start: 6 @26203 has 11 MA's), (Start: 11 @26248 has 2 MA's), (23, 26329), (28, 26350), (34, 26386), (47, 26581), (65, 26833), (74, 26905), (75, 26911), (87, 27016),

Gene: Bush_43 Start: 26151, Stop: 26984, Start Num: 6

Candidate Starts for Bush_43:

(Start: 6 @26151 has 11 MA's), (Start: 11 @26196 has 2 MA's), (23, 26277), (28, 26298), (34, 26334), (47, 26529), (65, 26781), (74, 26853), (75, 26859), (87, 26964),

Gene: Cardigan_119 Start: 67606, Stop: 68412, Start Num: 6

Candidate Starts for Cardigan_119:

(1, 67564), (2, 67567), (Start: 6 @67606 has 11 MA's), (26, 67747), (34, 67798), (44, 67960), (45, 67972), (59, 68125), (81, 68353), (83, 68356), (84, 68362), (85, 68377), (86, 68386), (89, 68401),

Gene: Catfish_50 Start: 34417, Stop: 35127, Start Num: 4

Candidate Starts for Catfish_50:

(Start: 4 @34417 has 1 MA's), (Start: 12 @34480 has 2 MA's), (22, 34555), (56, 34873), (68, 34987), (79, 35095), (82, 35113),

Gene: Dardanus_47 Start: 31666, Stop: 32385, Start Num: 11

Candidate Starts for Dardanus_47:

(Start: 6 @31621 has 11 MA's), (Start: 11 @31666 has 2 MA's), (Start: 12 @31669 has 2 MA's), (Start: 17 @31708 has 2 MA's), (18, 31714), (23, 31759), (25, 31771), (42, 31930), (52, 32008), (54, 32026), (55, 32053), (57, 32065), (73, 32230),

Gene: Daredevil_78 Start: 56200, Stop: 55208, Start Num: 6

Candidate Starts for Daredevil_78:

(Start: 6 @56200 has 11 MA's), (8, 56191), (Start: 17 @56113 has 2 MA's), (25, 56050), (34, 56005), (41, 55891), (58, 55624), (72, 55462), (90, 55315), (92, 55261), (93, 55228),

Gene: Dropshot_42 Start: 25858, Stop: 26670, Start Num: 6

Candidate Starts for Dropshot_42:

(Start: 6 @25858 has 11 MA's), (Start: 11 @25903 has 2 MA's), (23, 25984), (28, 26005), (34, 26041), (61, 26383), (65, 26467), (74, 26539), (75, 26545), (87, 26650),

Gene: Footloose_57 Start: 32676, Stop: 33455, Start Num: 11

Candidate Starts for Footloose_57:

(Start: 11 @32676 has 2 MA's), (25, 32781), (31, 32805), (35, 32838), (37, 32865), (39, 32907), (40, 32910), (46, 33012), (48, 33027), (62, 33189), (66, 33264), (69, 33276), (70, 33285), (77, 33360), (84, 33405),

Gene: Goib_53 Start: 33944, Stop: 34795, Start Num: 9

Candidate Starts for Goib_53:

(Start: 6 @33917 has 11 MA's), (Start: 9 @33944 has 2 MA's), (Start: 17 @34004 has 2 MA's), (19, 34013), (21, 34040), (23, 34055), (25, 34067), (29, 34079), (41, 34226), (49, 34340), (55, 34418),

Gene: Jinkies_48 Start: 35024, Stop: 35947, Start Num: 6

Candidate Starts for Jinkies_48:

(Start: 6 @35024 has 11 MA's), (Start: 12 @35072 has 2 MA's), (24, 35156), (41, 35324), (60, 35594), (63, 35642),

Gene: MenE_46 Start: 26123, Stop: 26959, Start Num: 6

Candidate Starts for MenE_46:

(Start: 6 @26123 has 11 MA's), (Start: 11 @26168 has 2 MA's), (23, 26249), (28, 26270), (34, 26306), (47, 26501), (61, 26672), (65, 26756), (74, 26828), (75, 26834), (87, 26939),

Gene: Mollymur_88 Start: 61334, Stop: 60348, Start Num: 6

Candidate Starts for Mollymur_88:

(Start: 6 @61334 has 11 MA's), (8, 61325), (24, 61190), (25, 61184), (58, 60773), (72, 60602), (91, 60425), (92, 60401),

Gene: MrSmee_55 Start: 32435, Stop: 33181, Start Num: 6

Candidate Starts for MrSmee_55:

(Start: 6 @32435 has 11 MA's), (15, 32504), (19, 32519), (23, 32561), (33, 32603), (38, 32687), (41, 32732), (67, 32999), (68, 33002), (70, 33014), (74, 33059), (83, 33128),

Gene: Phonegingi_42 Start: 26069, Stop: 26881, Start Num: 6

Candidate Starts for Phonegingi_42:

(Start: 6 @26069 has 11 MA's), (Start: 11 @26114 has 2 MA's), (28, 26216), (34, 26252), (50, 26447), (65, 26678), (74, 26750), (75, 26756), (76, 26759), (87, 26861),

Gene: Pickles13_41 Start: 26333, Stop: 27145, Start Num: 6

Candidate Starts for Pickles13_41:

(Start: 6 @26333 has 11 MA's), (Start: 11 @26378 has 2 MA's), (28, 26480), (34, 26516), (61, 26858), (65, 26942), (74, 27014), (75, 27020), (87, 27125),

Gene: Splinter_52 Start: 34027, Stop: 34818, Start Num: 17

Candidate Starts for Splinter_52:

(Start: 6 @33940 has 11 MA's), (Start: 9 @33967 has 2 MA's), (Start: 17 @34027 has 2 MA's), (19, 34036), (21, 34063), (23, 34078), (25, 34090), (29, 34102), (41, 34249), (55, 34441),

Gene: TZGordon_54 Start: 33313, Stop: 34164, Start Num: 9

Candidate Starts for TZGordon_54:

(Start: 6 @33286 has 11 MA's), (Start: 9 @33313 has 2 MA's), (Start: 17 @33373 has 2 MA's), (19, 33382), (21, 33409), (23, 33424), (25, 33436), (29, 33448), (41, 33595), (55, 33787),

Gene: ThulaThula_70 Start: 45355, Stop: 46230, Start Num: 3

Candidate Starts for ThulaThula_70:

(Start: 3 @45355 has 1 MA's), (7, 45376), (14, 45427), (16, 45448), (21, 45484), (30, 45541), (32, 45550), (36, 45589), (53, 45802), (78, 46120),

Gene: TinaLin_51 Start: 32790, Stop: 33620, Start Num: 12

Candidate Starts for TinaLin_51:

(Start: 6 @32742 has 11 MA's), (Start: 12 @32790 has 2 MA's), (23, 32880), (25, 32892), (29, 32904), (35, 32949), (36, 32961), (41, 33051), (43, 33102), (55, 33243), (72, 33459), (88, 33588),

Gene: Vendetta_52 Start: 34027, Stop: 34818, Start Num: 17

Candidate Starts for Vendetta_52:

(Start: 6 @33940 has 11 MA's), (Start: 9 @33967 has 2 MA's), (Start: 17 @34027 has 2 MA's), (19, 34036), (21, 34063), (23, 34078), (25, 34090), (29, 34102), (41, 34249), (55, 34441),

Gene: Warren_42 Start: 26076, Stop: 26891, Start Num: 6

Candidate Starts for Warren_42:

(Start: 6 @26076 has 11 MA's), (21, 26187), (28, 26223), (61, 26604), (65, 26688), (74, 26760), (75, 26766), (87, 26871),

Gene: Yvonnetastic_115 Start: 65057, Stop: 65878, Start Num: 5

Candidate Starts for Yvonnetastic_115:

(Start: 5 @65057 has 1 MA's), (13, 65120), (26, 65207), (34, 65258), (39, 65339), (45, 65432), (59, 65585), (80, 65807),