

Pham 156525



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 156525 Report

This analysis was run 04/12/24 on database version 558.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 156525 has 35 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Raleigh_39
- Track 2 : Darolandstone_39
- Track 3 : Piccadilly_41, Eastland_41, HFrancette_42, Ignacio_41
- Track 4 : AxeJC_40
- Track 5 : Cumberbatch_42
- Track 6 : Vondra_40
- Track 7 : Vendetta_52, Splinter_52
- Track 8 : Goib_53
- Track 9 : TinaLin_51, Banquo_51
- Track 10 : TZGordon_54
- Track 11 : Dardanus_47
- Track 12 : Catfish_50
- Track 13 : Cardigan_119
- Track 14 : Yvonnetastic_115
- Track 15 : Daredevil_78
- Track 16 : Mollymur_88
- Track 17 : Jinkies_48
- Track 18 : Warren_42
- Track 19 : Phonegingi_42
- Track 20 : Blett_42, Bush_45
- Track 21 : Appa_42, Dropshot_42
- Track 22 : Pickles13_41
- Track 23 : MenE_46, Antuna_43
- Track 24 : ThulaThula_70
- Track 25 : MrSmee_55
- Track 26 : ArV2_59
- Track 27 : 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 18, it was called in 19 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antuna_43, Appa_42, AxeJC_40, Blett_42, Bush_45, Cardigan_119, Cumberbatch_42, Daredevil_78, Darolandstone_39, Dropshot_42, Eastland_41, HFrancette_42, Ignacio_41, Jinkies_48, MenE_46, Mollymur_88, MrSmee_55, Phonegingi_42, Piccadilly_41, Pickles13_41, Raleigh_39, Vondra_40, 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, Yvonnestic_115,

Summary by start number:

Start 14:

- Found in 1 of 35 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ThulaThula_70 (P5),

Start 15:

- Found in 1 of 35 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Catfish_50 (CU5),

Start 16:

- Found in 1 of 35 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yvonnestic_115 (DD),

Start 17:

- Found in 1 of 35 (2.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV2_59 (singleton),

Start 18:

- Found in 30 of 35 (85.7%) of genes in pham
- Manual Annotations of this start: 19 of 30
- Called 76.7% of time when present
- Phage (with cluster) where this start called: Antuna_43 (GA), Appa_42 (GA), AxeJC_40 (BP), Blett_42 (GA), Bush_45 (GA), Cardigan_119 (DD), Cumberbatch_42 (BP), Daredevil_78 (DL), Darolandstone_39 (BC2), Dropshot_42 (GA), Eastland_41 (BP), HFrancette_42 (BP), Ignacio_41 (BP), Jinkies_48 (FL), MenE_46 (GA), Mollymur_88 (DL), MrSmee_55 (UNK), Phonegingi_42 (GA), Piccadilly_41 (BP), Pickles13_41 (GA), Raleigh_39 (BC2), Vondra_40 (BP), Warren_42 (GA),

Start 21:

- Found in 4 of 35 (11.4%) of genes in pham
- Manual Annotations of this start: 2 of 30
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Goib_53 (CU1), TZGordon_54 (CU1),

Start 24:

- Found in 12 of 35 (34.3%) of genes in pham
- Manual Annotations of this start: 2 of 30
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Dardanus_47 (CU3), Footloose_57 (singleton),

Start 25:

- Found in 5 of 35 (14.3%) of genes in pham
- Manual Annotations of this start: 2 of 30
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Banquo_51 (CU1), TinaLin_51 (CU1),

Start 28:

- Found in 9 of 35 (25.7%) of genes in pham
- Manual Annotations of this start: 2 of 30
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Splinter_52 (CU1), Vendetta_52 (CU1),

Summary by clusters:

There are 12 clusters represented in this pham: CU5, CU3, CU1, P5, DD, DL, BP, GA, singleton, UNK, FL, BC2,

Info for manual annotations of cluster BC2:

- Start number 18 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BP:

- Start number 18 was manually annotated 7 times for cluster BP.

Info for manual annotations of cluster CU1:

- Start number 21 was manually annotated 2 times for cluster CU1.
- Start number 25 was manually annotated 2 times for cluster CU1.
- Start number 28 was manually annotated 2 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 24 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU5:

- Start number 15 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DD:

- Start number 16 was manually annotated 1 time for cluster DD.

Info for manual annotations of cluster DL:

- Start number 18 was manually annotated 2 times for cluster DL.

Info for manual annotations of cluster FL:

- Start number 18 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster GA:

- Start number 18 was manually annotated 7 times for cluster GA.

Info for manual annotations of cluster P5:

- Start number 14 was manually annotated 1 time for cluster P5.

Gene Information:

Gene: Antuna_43 Start: 26101, Stop: 26937, Start Num: 18

Candidate Starts for Antuna_43:

(Start: 18 @26101 has 19 MA's), (Start: 24 @26146 has 2 MA's), (34, 26227), (38, 26248), (44, 26284), (62, 26479), (80, 26650), (88, 26734), (96, 26806), (97, 26812), (117, 26917),

Gene: Appa_42 Start: 26023, Stop: 26835, Start Num: 18

Candidate Starts for Appa_42:

(Start: 18 @26023 has 19 MA's), (Start: 24 @26068 has 2 MA's), (34, 26149), (38, 26170), (44, 26206), (80, 26548), (88, 26632), (96, 26704), (97, 26710), (117, 26815),

Gene: ArV2_59 Start: 32108, Stop: 32857, Start Num: 17

Candidate Starts for ArV2_59:

(17, 32108), (22, 32150), (Start: 24 @32165 has 2 MA's), (Start: 28 @32204 has 2 MA's), (31, 32222), (36, 32270), (61, 32495), (63, 32507), (81, 32669), (83, 32714),

Gene: AxeJC_40 Start: 28086, Stop: 28979, Start Num: 18

Candidate Starts for AxeJC_40:

(1, 27522), (2, 27579), (3, 27582), (4, 27669), (5, 27762), (6, 27765), (7, 27822), (8, 27927), (9, 27942), (11, 27978), (Start: 18 @28086 has 19 MA's), (23, 28119), (34, 28212), (70, 28590), (101, 28869), (109, 28908),

Gene: Banquo_51 Start: 32896, Stop: 33726, Start Num: 25

Candidate Starts for Banquo_51:

(Start: 18 @32848 has 19 MA's), (Start: 25 @32896 has 2 MA's), (34, 32986), (36, 32998), (39, 33010), (45, 33055), (46, 33067), (55, 33157), (57, 33208), (71, 33349), (90, 33565), (112, 33694),

Gene: Blett_42 Start: 26203, Stop: 27036, Start Num: 18

Candidate Starts for Blett_42:

(Start: 18 @26203 has 19 MA's), (Start: 24 @26248 has 2 MA's), (34, 26329), (38, 26350), (44, 26386), (62, 26581), (88, 26833), (96, 26905), (97, 26911), (117, 27016),

Gene: Bush_45 Start: 26151, Stop: 26984, Start Num: 18

Candidate Starts for Bush_45:

(Start: 18 @26151 has 19 MA's), (Start: 24 @26196 has 2 MA's), (34, 26277), (38, 26298), (44, 26334), (62, 26529), (88, 26781), (96, 26853), (97, 26859), (117, 26964),

Gene: Cardigan_119 Start: 67606, Stop: 68412, Start Num: 18

Candidate Starts for Cardigan_119:

(12, 67564), (13, 67567), (Start: 18 @67606 has 19 MA's), (37, 67747), (45, 67798), (58, 67960), (59, 67972), (74, 68125), (102, 68353), (103, 68356), (105, 68362), (106, 68377), (107, 68386), (111, 68401),

Gene: Catfish_50 Start: 34417, Stop: 35127, Start Num: 15

Candidate Starts for Catfish_50:

(Start: 15 @34417 has 1 MA's), (Start: 25 @34480 has 2 MA's), (33, 34555), (72, 34873), (93, 34987), (110, 35095), (113, 35113),

Gene: Cumberbatch_42 Start: 28364, Stop: 29290, Start Num: 18

Candidate Starts for Cumberbatch_42:

(Start: 18 @28364 has 19 MA's), (23, 28397), (Start: 28 @28439 has 2 MA's), (50, 28625), (67, 28853),

Gene: Dardanus_47 Start: 31666, Stop: 32385, Start Num: 24

Candidate Starts for Dardanus_47:

(Start: 18 @31621 has 19 MA's), (Start: 24 @31666 has 2 MA's), (Start: 25 @31669 has 2 MA's), (Start: 28 @31708 has 2 MA's), (29, 31714), (34, 31759), (36, 31771), (56, 31930), (66, 32008), (69, 32026), (71, 32053), (73, 32065), (93, 32230),

Gene: Daredevil_78 Start: 56200, Stop: 55208, Start Num: 18

Candidate Starts for Daredevil_78:

(Start: 18 @56200 has 19 MA's), (20, 56191), (Start: 28 @56113 has 2 MA's), (36, 56050), (44, 56005), (55, 55891), (75, 55624), (90, 55462), (115, 55315), (120, 55261), (121, 55228),

Gene: Darolandstone_39 Start: 30667, Stop: 31617, Start Num: 18

Candidate Starts for Darolandstone_39:

(Start: 18 @30667 has 19 MA's), (33, 30790), (49, 30919), (50, 30922), (77, 31270), (78, 31276), (79, 31282), (109, 31525), (116, 31558), (118, 31576),

Gene: Dropshot_42 Start: 25858, Stop: 26670, Start Num: 18

Candidate Starts for Dropshot_42:

(Start: 18 @25858 has 19 MA's), (Start: 24 @25903 has 2 MA's), (34, 25984), (38, 26005), (44, 26041), (80, 26383), (88, 26467), (96, 26539), (97, 26545), (117, 26650),

Gene: Eastland_41 Start: 28339, Stop: 29250, Start Num: 18

Candidate Starts for Eastland_41:

(10, 28204), (Start: 18 @28339 has 19 MA's), (23, 28372), (34, 28465), (49, 28591), (50, 28594), (51, 28606), (70, 28837), (91, 29047),

Gene: Footloose_57 Start: 32676, Stop: 33455, Start Num: 24

Candidate Starts for Footloose_57:

(Start: 24 @32676 has 2 MA's), (36, 32781), (40, 32805), (45, 32838), (49, 32865), (53, 32907), (54, 32910), (60, 33012), (61, 33027), (76, 33189), (84, 33264), (85, 33276), (87, 33285), (95, 33360), (102, 33405),

Gene: Goib_53 Start: 33944, Stop: 34795, Start Num: 21

Candidate Starts for Goib_53:

(Start: 18 @33917 has 19 MA's), (Start: 21 @33944 has 2 MA's), (Start: 28 @34004 has 2 MA's), (30, 34013), (32, 34040), (34, 34055), (36, 34067), (39, 34079), (55, 34226), (65, 34340), (71, 34418),

Gene: HFrancette_42 Start: 29117, Stop: 30028, Start Num: 18

Candidate Starts for HFrancette_42:

(10, 28982), (Start: 18 @29117 has 19 MA's), (23, 29150), (34, 29243), (49, 29369), (50, 29372), (51, 29384), (70, 29615), (91, 29825),

Gene: Ignacio_41 Start: 29020, Stop: 29931, Start Num: 18

Candidate Starts for Ignacio_41:

(10, 28885), (Start: 18 @29020 has 19 MA's), (23, 29053), (34, 29146), (49, 29272), (50, 29275), (51, 29287), (70, 29518), (91, 29728),

Gene: Jinkies_48 Start: 35024, Stop: 35947, Start Num: 18

Candidate Starts for Jinkies_48:

(Start: 18 @35024 has 19 MA's), (Start: 25 @35072 has 2 MA's), (35, 35156), (55, 35324), (82, 35594), (86, 35642),

Gene: MenE_46 Start: 26123, Stop: 26959, Start Num: 18

Candidate Starts for MenE_46:

(Start: 18 @26123 has 19 MA's), (Start: 24 @26168 has 2 MA's), (34, 26249), (38, 26270), (44, 26306), (62, 26501), (80, 26672), (88, 26756), (96, 26828), (97, 26834), (117, 26939),

Gene: Mollymur_88 Start: 61334, Stop: 60348, Start Num: 18

Candidate Starts for Mollymur_88:

(Start: 18 @61334 has 19 MA's), (20, 61325), (35, 61190), (36, 61184), (75, 60773), (90, 60602), (119, 60425), (120, 60401),

Gene: MrSmee_55 Start: 32435, Stop: 33181, Start Num: 18

Candidate Starts for MrSmee_55:

(Start: 18 @32435 has 19 MA's), (27, 32504), (30, 32519), (34, 32561), (41, 32603), (52, 32687), (55, 32732), (92, 32999), (93, 33002), (94, 33014), (99, 33059), (114, 33128),

Gene: Phonegingi_42 Start: 26069, Stop: 26881, Start Num: 18

Candidate Starts for Phonegingi_42:

(Start: 18 @26069 has 19 MA's), (Start: 24 @26114 has 2 MA's), (38, 26216), (44, 26252), (64, 26447), (88, 26678), (96, 26750), (97, 26756), (98, 26759), (117, 26861),

Gene: Piccadilly_41 Start: 28338, Stop: 29249, Start Num: 18

Candidate Starts for Piccadilly_41:

(10, 28203), (Start: 18 @28338 has 19 MA's), (23, 28371), (34, 28464), (49, 28590), (50, 28593), (51, 28605), (70, 28836), (91, 29046),

Gene: Pickles13_41 Start: 26333, Stop: 27145, Start Num: 18

Candidate Starts for Pickles13_41:

(Start: 18 @26333 has 19 MA's), (Start: 24 @26378 has 2 MA's), (38, 26480), (44, 26516), (80, 26858), (88, 26942), (96, 27014), (97, 27020), (117, 27125),

Gene: Raleigh_39 Start: 31035, Stop: 31985, Start Num: 18

Candidate Starts for Raleigh_39:

(Start: 18 @31035 has 19 MA's), (Start: 24 @31080 has 2 MA's), (33, 31158), (49, 31287), (50, 31290), (77, 31638), (78, 31644), (79, 31650), (89, 31764), (104, 31857), (109, 31893), (118, 31944),

Gene: Splinter_52 Start: 34027, Stop: 34818, Start Num: 28

Candidate Starts for Splinter_52:

(Start: 18 @33940 has 19 MA's), (Start: 21 @33967 has 2 MA's), (Start: 28 @34027 has 2 MA's), (30, 34036), (32, 34063), (34, 34078), (36, 34090), (39, 34102), (55, 34249), (71, 34441),

Gene: TZGordon_54 Start: 33313, Stop: 34164, Start Num: 21

Candidate Starts for TZGordon_54:

(Start: 18 @33286 has 19 MA's), (Start: 21 @33313 has 2 MA's), (Start: 28 @33373 has 2 MA's), (30, 33382), (32, 33409), (34, 33424), (36, 33436), (39, 33448), (55, 33595), (71, 33787),

Gene: ThulaThula_70 Start: 45355, Stop: 46230, Start Num: 14

Candidate Starts for ThulaThula_70:

(Start: 14 @45355 has 1 MA's), (19, 45376), (26, 45427), (Start: 28 @45448 has 2 MA's), (32, 45484), (42, 45541), (43, 45550), (47, 45589), (68, 45802), (108, 46120),

Gene: TinaLin_51 Start: 32790, Stop: 33620, Start Num: 25

Candidate Starts for TinaLin_51:

(Start: 18 @32742 has 19 MA's), (Start: 25 @32790 has 2 MA's), (34, 32880), (36, 32892), (39, 32904), (45, 32949), (46, 32961), (55, 33051), (57, 33102), (71, 33243), (90, 33459), (112, 33588),

Gene: Vendetta_52 Start: 34027, Stop: 34818, Start Num: 28

Candidate Starts for Vendetta_52:

(Start: 18 @33940 has 19 MA's), (Start: 21 @33967 has 2 MA's), (Start: 28 @34027 has 2 MA's), (30, 34036), (32, 34063), (34, 34078), (36, 34090), (39, 34102), (55, 34249), (71, 34441),

Gene: Vondra_40 Start: 28184, Stop: 29101, Start Num: 18

Candidate Starts for Vondra_40:

(Start: 18 @28184 has 19 MA's), (23, 28217), (33, 28307), (34, 28310), (48, 28424), (49, 28436), (50, 28439), (70, 28682),

Gene: Warren_42 Start: 26076, Stop: 26891, Start Num: 18

Candidate Starts for Warren_42:

(Start: 18 @26076 has 19 MA's), (32, 26187), (38, 26223), (80, 26604), (88, 26688), (96, 26760), (97, 26766), (117, 26871),

Gene: Yvonnetastic_115 Start: 65057, Stop: 65878, Start Num: 16

Candidate Starts for Yvonnetastic_115:

(Start: 16 @65057 has 1 MA's), (26, 65120), (37, 65207), (45, 65258), (53, 65339), (59, 65432), (74, 65585), (100, 65807),