

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 305203 Report

This analysis was run 06/08/26 on database version 649.

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 305203 has 30 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Fairfaxidum_45
- Track 2 : Blino_47, CarolAnn_46, Soilmate_49
- Track 3 : PrincePatrick_43, William_45
- Track 4 : ThankyouJordi_44, WelcomeAyanna_44
- Track 5 : Mulch_41, Ayotoya_41, GrandSlam_41, Nadeem_41, WheatThin_41, Parada_41, Brylie_41, Chop_41, Hamood_41
- Track 6 : Pimento_42, BetterKatz_41, DelRio_42
- Track 7 : NancyRae_41
- Track 8 : Francois_40
- Track 9 : Bock_41
- Track 10 : BearBQ_50
- Track 11 : Whitney_52
- Track 12 : ArchiDore_44
- Track 13 : Malibo_45, Ruthy_44
- Track 14 : DumpsterDude_46
- Track 15 : PhaoMing_36

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

The start number called the most often in the published annotations is 12, it was called in 14 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ayotoya_41, BetterKatz_41, Brylie_41, Chop_41, DelRio_42, Francois_40, GrandSlam_41, Hamood_41, Mulch_41, Nadeem_41, NancyRae_41, Parada_41, Pimento_42, WheatThin_41,

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

- Bock_41,

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

- ArchiDore_44, BearBQ_50, Blino_47, CarolAnn_46, DumpsterDude_46, Fairfaxidum_45, Malibo_45, PhaoMing_36, PrincePatrick_43, Ruthy_44, Soilmate_49, ThankyouJordi_44, WelcomeAyanna_44, Whitney_52, William_45,

Summary by start number:

Start 9:

- Found in 6 of 30 (20.0%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Fairfaxidum_45 (CV),

Start 10:

- Found in 4 of 30 (13.3%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 25.0% of time when present
- Phage (with cluster) where this start called: DumpsterDude_46 (DW),

Start 12:

- Found in 15 of 30 (50.0%) of genes in pham
- Manual Annotations of this start: 14 of 28
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Ayotoya_41 (DI), BetterKatz_41 (DI), Brylie_41 (DI), Chop_41 (DI), DelRio_42 (DI), Francois_40 (DI), GrandSlam_41 (DI), Hamood_41 (DI), Mulch_41 (DI), Nadeem_41 (DI), NancyRae_41 (DI), Parada_41 (DI), Pimento_42 (DI), WheatThin_41 (DI),

Start 13:

- Found in 15 of 30 (50.0%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 6.7% of time when present
- Phage (with cluster) where this start called: Bock_41 (DI),

Start 14:

- Found in 15 of 30 (50.0%) of genes in pham
- Manual Annotations of this start: 11 of 28
- Called 80.0% of time when present
- Phage (with cluster) where this start called: ArchiDore_44 (DW), BearBQ_50 (DN), Blino_47 (CV), CarolAnn_46 (CV), Malibo_45 (DW), PrincePatrick_43 (CV), Ruthy_44 (DW), Soilmate_49 (CV), ThankyouJordi_44 (CZ1), WelcomeAyanna_44 (CZ1), Whitney_52 (DN1), William_45 (CV),

Start 17:

- Found in 30 of 30 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 3.3% of time when present
- Phage (with cluster) where this start called: PhaoMing_36 (UNK),

Summary by clusters:

There are 7 clusters represented in this pham: DN, DI, CZ1, DN1, DW, UNK, CV,

Info for manual annotations of cluster CV:

- Start number 9 was manually annotated 1 time for cluster CV.
- Start number 14 was manually annotated 4 times for cluster CV.

Info for manual annotations of cluster CZ1:

- Start number 14 was manually annotated 2 times for cluster CZ1.

Info for manual annotations of cluster DI:

- Start number 12 was manually annotated 14 times for cluster DI.
- Start number 13 was manually annotated 1 time for cluster DI.

Info for manual annotations of cluster DN:

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

Info for manual annotations of cluster DN1:

- Start number 14 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DW:

- Start number 10 was manually annotated 1 time for cluster DW.
- Start number 14 was manually annotated 3 times for cluster DW.

Gene Information:

Gene: ArchiDore_44 Start: 36013, Stop: 36261, Start Num: 14

Candidate Starts for ArchiDore_44:

(7, 35947), (Start: 10 @35980 has 1 MA's), (Start: 14 @36013 has 11 MA's), (17, 36049), (19, 36064), (20, 36070), (24, 36193), (26, 36208),

Gene: Ayotoya_41 Start: 33075, Stop: 33353, Start Num: 12

Candidate Starts for Ayotoya_41:

(Start: 12 @33075 has 14 MA's), (Start: 13 @33084 has 1 MA's), (15, 33111), (16, 33123), (17, 33126), (19, 33141), (21, 33156), (23, 33264), (25, 33276), (27, 33294),

Gene: BearBQ_50 Start: 36850, Stop: 37101, Start Num: 14

Candidate Starts for BearBQ_50:

(8, 36805), (Start: 14 @36850 has 11 MA's), (17, 36886), (20, 36907), (22, 36994), (23, 37024), (27, 37054), (28, 37090),

Gene: BetterKatz_41 Start: 32601, Stop: 32837, Start Num: 12

Candidate Starts for BetterKatz_41:

(Start: 12 @32601 has 14 MA's), (Start: 13 @32610 has 1 MA's), (15, 32637), (16, 32649), (17, 32652), (23, 32790), (25, 32802), (27, 32820),

Gene: Blino_47 Start: 38067, Stop: 38321, Start Num: 14

Candidate Starts for Blino_47:

(Start: 9 @38031 has 1 MA's), (Start: 14 @38067 has 11 MA's), (17, 38103), (18, 38109), (20, 38124), (23, 38241), (24, 38247),

Gene: Bock_41 Start: 32304, Stop: 32573, Start Num: 13

Candidate Starts for Bock_41:

(5, 32238), (6, 32241), (Start: 12 @32295 has 14 MA's), (Start: 13 @32304 has 1 MA's), (15, 32331), (16, 32343), (17, 32346), (21, 32376), (23, 32484), (25, 32496), (27, 32514),

Gene: Brylie_41 Start: 32342, Stop: 32620, Start Num: 12

Candidate Starts for Brylie_41:

(Start: 12 @32342 has 14 MA's), (Start: 13 @32351 has 1 MA's), (15, 32378), (16, 32390), (17, 32393), (19, 32408), (21, 32423), (23, 32531), (25, 32543), (27, 32561),

Gene: CarolAnn_46 Start: 38066, Stop: 38320, Start Num: 14

Candidate Starts for CarolAnn_46:

(Start: 9 @38030 has 1 MA's), (Start: 14 @38066 has 11 MA's), (17, 38102), (18, 38108), (20, 38123), (23, 38240), (24, 38246),

Gene: Chop_41 Start: 32822, Stop: 33100, Start Num: 12

Candidate Starts for Chop_41:

(Start: 12 @32822 has 14 MA's), (Start: 13 @32831 has 1 MA's), (15, 32858), (16, 32870), (17, 32873), (19, 32888), (21, 32903), (23, 33011), (25, 33023), (27, 33041),

Gene: DelRio_42 Start: 33530, Stop: 33808, Start Num: 12

Candidate Starts for DelRio_42:

(Start: 12 @33530 has 14 MA's), (Start: 13 @33539 has 1 MA's), (15, 33566), (16, 33578), (17, 33581), (23, 33719), (25, 33731), (27, 33749),

Gene: DumpsterDude_46 Start: 38205, Stop: 38486, Start Num: 10

Candidate Starts for DumpsterDude_46:

(7, 38172), (Start: 10 @38205 has 1 MA's), (Start: 14 @38238 has 11 MA's), (17, 38274), (19, 38289), (20, 38295), (26, 38433),

Gene: Fairfaxidum_45 Start: 35457, Stop: 35756, Start Num: 9

Candidate Starts for Fairfaxidum_45:

(Start: 9 @35457 has 1 MA's), (Start: 14 @35493 has 11 MA's), (17, 35529), (20, 35550), (23, 35667), (26, 35688),

Gene: Francois_40 Start: 32426, Stop: 32704, Start Num: 12

Candidate Starts for Francois_40:

(Start: 12 @32426 has 14 MA's), (Start: 13 @32435 has 1 MA's), (15, 32462), (16, 32474), (17, 32477), (19, 32492), (23, 32615), (25, 32627), (27, 32645),

Gene: GrandSlam_41 Start: 32822, Stop: 33100, Start Num: 12

Candidate Starts for GrandSlam_41:

(Start: 12 @32822 has 14 MA's), (Start: 13 @32831 has 1 MA's), (15, 32858), (16, 32870), (17, 32873), (19, 32888), (21, 32903), (23, 33011), (25, 33023), (27, 33041),

Gene: Hamood_41 Start: 32822, Stop: 33100, Start Num: 12

Candidate Starts for Hamood_41:

(Start: 12 @32822 has 14 MA's), (Start: 13 @32831 has 1 MA's), (15, 32858), (16, 32870), (17, 32873), (19, 32888), (21, 32903), (23, 33011), (25, 33023), (27, 33041),

Gene: Malibo_45 Start: 35237, Stop: 35485, Start Num: 14

Candidate Starts for Malibo_45:

(7, 35171), (Start: 10 @35204 has 1 MA's), (Start: 14 @35237 has 11 MA's), (17, 35273), (19, 35288), (20, 35294), (26, 35432),

Gene: Mulch_41 Start: 32342, Stop: 32620, Start Num: 12

Candidate Starts for Mulch_41:

(Start: 12 @32342 has 14 MA's), (Start: 13 @32351 has 1 MA's), (15, 32378), (16, 32390), (17, 32393), (19, 32408), (21, 32423), (23, 32531), (25, 32543), (27, 32561),

Gene: Nadeem_41 Start: 32342, Stop: 32620, Start Num: 12

Candidate Starts for Nadeem_41:

(Start: 12 @32342 has 14 MA's), (Start: 13 @32351 has 1 MA's), (15, 32378), (16, 32390), (17, 32393), (19, 32408), (21, 32423), (23, 32531), (25, 32543), (27, 32561),

Gene: NancyRae_41 Start: 32352, Stop: 32630, Start Num: 12

Candidate Starts for NancyRae_41:

(5, 32295), (6, 32298), (Start: 12 @32352 has 14 MA's), (Start: 13 @32361 has 1 MA's), (15, 32388), (16, 32400), (17, 32403), (21, 32433), (23, 32541), (25, 32553), (27, 32571),

Gene: Parada_41 Start: 32342, Stop: 32620, Start Num: 12

Candidate Starts for Parada_41:

(Start: 12 @32342 has 14 MA's), (Start: 13 @32351 has 1 MA's), (15, 32378), (16, 32390), (17, 32393), (19, 32408), (21, 32423), (23, 32531), (25, 32543), (27, 32561),

Gene: PhaoMing_36 Start: 32372, Stop: 32587, Start Num: 17

Candidate Starts for PhaoMing_36:

(8, 32291), (Start: 14 @32336 has 11 MA's), (17, 32372), (20, 32393), (22, 32480), (23, 32510), (27, 32540), (28, 32576),

Gene: Pimento_42 Start: 31999, Stop: 32277, Start Num: 12

Candidate Starts for Pimento_42:

(Start: 12 @31999 has 14 MA's), (Start: 13 @32008 has 1 MA's), (15, 32035), (16, 32047), (17, 32050), (23, 32188), (25, 32200), (27, 32218),

Gene: PrincePatrick_43 Start: 33264, Stop: 33527, Start Num: 14

Candidate Starts for PrincePatrick_43:

(Start: 9 @33228 has 1 MA's), (Start: 14 @33264 has 11 MA's), (17, 33300), (20, 33321), (23, 33438), (26, 33459),

Gene: Ruthy_44 Start: 35600, Stop: 35848, Start Num: 14

Candidate Starts for Ruthy_44:

(7, 35534), (Start: 10 @35567 has 1 MA's), (Start: 14 @35600 has 11 MA's), (17, 35636), (19, 35651), (20, 35657), (26, 35795),

Gene: Soilmate_49 Start: 38066, Stop: 38320, Start Num: 14

Candidate Starts for Soilmate_49:

(Start: 9 @38030 has 1 MA's), (Start: 14 @38066 has 11 MA's), (17, 38102), (18, 38108), (20, 38123), (23, 38240), (24, 38246),

Gene: ThankyouJordi_44 Start: 36245, Stop: 36499, Start Num: 14

Candidate Starts for ThankyouJordi_44:

(1, 35879), (2, 36056), (3, 36134), (4, 36137), (11, 36212), (Start: 14 @36245 has 11 MA's), (17, 36281), (19, 36296), (20, 36302),

Gene: WelcomeAyanna_44 Start: 36392, Stop: 36646, Start Num: 14

Candidate Starts for WelcomeAyanna_44:

(1, 36026), (2, 36203), (3, 36281), (4, 36284), (11, 36359), (Start: 14 @36392 has 11 MA's), (17, 36428), (19, 36443), (20, 36449),

Gene: WheatThin_41 Start: 32342, Stop: 32620, Start Num: 12

Candidate Starts for WheatThin_41:

(Start: 12 @32342 has 14 MA's), (Start: 13 @32351 has 1 MA's), (15, 32378), (16, 32390), (17, 32393), (19, 32408), (21, 32423), (23, 32531), (25, 32543), (27, 32561),

Gene: Whitney_52 Start: 37087, Stop: 37338, Start Num: 14

Candidate Starts for Whitney_52:

(8, 37042), (Start: 14 @37087 has 11 MA's), (17, 37123), (20, 37144), (23, 37261), (27, 37291), (28, 37327),

Gene: William_45 Start: 34949, Stop: 35212, Start Num: 14

Candidate Starts for William_45:

(Start: 9 @34913 has 1 MA's), (Start: 14 @34949 has 11 MA's), (17, 34985), (20, 35006), (23, 35123), (26, 35144),