

Pham 329279



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 329279 Report

This analysis was run 09/05/26 on database version 662.

Pham number 329279 has 32 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Phabba_184
- Track 2 : BritBrat_51
- Track 3 : Malisha_52
- Track 4 : ODay_62
- Track 5 : Holliday_59
- Track 6 : Leroy_58
- Track 7 : Phabuloso_58
- Track 8 : CheeseTouch_62
- Track 9 : Zodiariah_46
- Track 10 : Bran_33, Adelaide_30
- Track 11 : Dina_30
- Track 12 : MicyPS_67
- Track 13 : Gallop_41
- Track 14 : Philus_50, Saal_49, BobaPhett_49, Mattes_50, Gorge_51, ByChance_37, SwagPiggett_52, James_50, DRBy19_49
- Track 15 : Jabbawokkie_61, Zapner_59
- Track 16 : Stuck_49, Bluvara_42
- Track 17 : Xavia_42, Tortellini_40
- Track 18 : LilSpotty_46
- Track 19 : GAL1_34
- Track 20 : GMA4_34

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 9 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BobaPhett_49, ByChance_37, DRBy19_49, GMA4_34, Gorge_51, James_50, Mattes_50, Philus_50, Saal_49, SwagPiggett_52,

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

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

- Adelaide_30, Bluvara_42, Bran_33, BritBrat_51, CheeseTouch_62, Dina_30, GAL1_34, Gallop_41, Holliday_59, Jabbawokkie_61, Leroy_58, LilSpotty_46, Malisha_52, MicyPS_67, ODay_62, Phabba_184, Phabuloso_58, Stuck_49, Tortellini_40, Xavia_42, Zapner_59, Zodiariah_46,

Summary by start number:

Start 11:

- Found in 3 of 32 (9.4%) of genes in pham
- Manual Annotations of this start: 3 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adelaide_30 (EP), Bran_33 (EP), Dina_30 (EP),

Start 12:

- Found in 9 of 32 (28.1%) of genes in pham
- Manual Annotations of this start: 8 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bluvara_42 (I3), BritBrat_51 (CY2), CheeseTouch_62 (DN1), Jabbawokkie_61 (F2), LilSpotty_46 (singleton), ODay_62 (DN), Stuck_49 (I2), Zapner_59 (F2), Zodiariah_46 (DW),

Start 13:

- Found in 1 of 32 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Leroy_58 (DN1),

Start 14:

- Found in 1 of 32 (3.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gallop_41 (ES),

Start 16:

- Found in 2 of 32 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GAL1_34 (singleton), Malisha_52 (DN),

Start 17:

- Found in 10 of 32 (31.2%) of genes in pham
- Manual Annotations of this start: 9 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BobaPhett_49 (F1), ByChance_37 (F1), DRBy19_49 (F1), GMA4_34 (singleton), Gorge_51 (F1), James_50 (F1), Mattes_50 (F1), Philus_50 (F1), Saal_49 (F1), SwagPiggett_52 (F1),

Start 18:

- Found in 2 of 32 (6.2%) of genes in pham
- Manual Annotations of this start: 2 of 28
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Tortellini_40 (P2), Xavia_42 (P3),

Start 19:

- Found in 2 of 32 (6.2%) of genes in pham
- Manual Annotations of this start: 2 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Holliday_59 (DN1), Phabuloso_58 (DN1),

Start 20:

- Found in 1 of 32 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phabba_184 (C2),

Start 23:

- Found in 1 of 32 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MicyPS_67 (EQ),

Summary by clusters:

There are 15 clusters represented in this pham: P2, F1, singleton, DN, P3, I3, I2, F2, DN1, DW, C2, CY2, EQ, EP, ES,

Info for manual annotations of cluster C2:

- Start number 20 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster CY2:

- Start number 12 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster DN:

- Start number 12 was manually annotated 1 time for cluster DN.
- Start number 16 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 12 was manually annotated 1 time for cluster DN1.
- Start number 13 was manually annotated 1 time for cluster DN1.
- Start number 19 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster DW:

- Start number 12 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster EP:

- Start number 11 was manually annotated 3 times for cluster EP.

Info for manual annotations of cluster EQ:

- Start number 23 was manually annotated 1 time for cluster EQ.

Info for manual annotations of cluster F1:

- Start number 17 was manually annotated 9 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 12 was manually annotated 2 times for cluster F2.

Info for manual annotations of cluster I2:

- Start number 12 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster P2:

- Start number 18 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:

- Start number 18 was manually annotated 1 time for cluster P3.

Gene Information:

Gene: Adelaide_30 Start: 26443, Stop: 27321, Start Num: 11

Candidate Starts for Adelaide_30:

(Start: 11 @26443 has 3 MA's), (24, 26545), (25, 26548), (26, 26554), (30, 26590), (49, 26728), (74, 27007), (89, 27211), (100, 27277), (102, 27280), (107, 27301),

Gene: Bluvara_42 Start: 33686, Stop: 34564, Start Num: 12

Candidate Starts for Bluvara_42:

(Start: 12 @33686 has 8 MA's), (25, 33782), (43, 33935), (46, 33959), (49, 33965), (68, 34100), (82, 34337), (102, 34523),

Gene: BobaPhett_49 Start: 36795, Stop: 37598, Start Num: 17

Candidate Starts for BobaPhett_49:

(Start: 17 @36795 has 9 MA's), (22, 36834), (28, 36870), (32, 36909), (36, 36939), (39, 36978), (47, 37041), (49, 37044), (52, 37068), (53, 37071), (54, 37095), (55, 37113), (56, 37122), (60, 37143), (72, 37299), (73, 37302), (77, 37350), (78, 37359), (81, 37386), (87, 37488), (91, 37521), (92, 37524), (94, 37533), (95, 37539), (99, 37572), (105, 37587),

Gene: Bran_33 Start: 28148, Stop: 29026, Start Num: 11

Candidate Starts for Bran_33:

(Start: 11 @28148 has 3 MA's), (24, 28250), (25, 28253), (26, 28259), (30, 28295), (49, 28433), (74, 28712), (89, 28916), (100, 28982), (102, 28985), (107, 29006),

Gene: BritBrat_51 Start: 37037, Stop: 37918, Start Num: 12

Candidate Starts for BritBrat_51:

(7, 36878), (Start: 12 @37037 has 8 MA's), (25, 37139), (26, 37145), (63, 37433), (82, 37691), (88, 37796), (89, 37808), (96, 37847), (100, 37874), (102, 37877), (107, 37898),

Gene: ByChance_37 Start: 29879, Stop: 30682, Start Num: 17

Candidate Starts for ByChance_37:

(Start: 17 @29879 has 9 MA's), (22, 29918), (28, 29954), (32, 29993), (36, 30023), (39, 30062), (47, 30125), (49, 30128), (52, 30152), (53, 30155), (54, 30179), (55, 30197), (56, 30206), (60, 30227), (72, 30383), (73, 30386), (77, 30434), (78, 30443), (81, 30470), (87, 30572), (91, 30605), (92, 30608), (94, 30617), (95, 30623), (99, 30656), (105, 30671),

Gene: CheeseTouch_62 Start: 34639, Stop: 35517, Start Num: 12

Candidate Starts for CheeseTouch_62:

(Start: 12 @34639 has 8 MA's), (25, 34738), (27, 34747), (33, 34795), (49, 34918), (53, 34945), (57, 34993), (76, 35230), (96, 35446), (102, 35476), (107, 35497),

Gene: DRBy19_49 Start: 35582, Stop: 36385, Start Num: 17

Candidate Starts for DRBy19_49:

(Start: 17 @35582 has 9 MA's), (22, 35621), (28, 35657), (32, 35696), (36, 35726), (39, 35765), (47, 35828), (49, 35831), (52, 35855), (53, 35858), (54, 35882), (55, 35900), (56, 35909), (60, 35930), (72, 36086), (73, 36089), (77, 36137), (78, 36146), (81, 36173), (87, 36275), (91, 36308), (92, 36311), (94, 36320), (95, 36326), (99, 36359), (105, 36374),

Gene: Dina_30 Start: 25374, Stop: 26258, Start Num: 11

Candidate Starts for Dina_30:

(Start: 11 @25374 has 3 MA's), (25, 25479), (27, 25488), (40, 25617), (41, 25629), (49, 25665), (74, 25944), (89, 26148), (100, 26214), (102, 26217), (107, 26238),

Gene: GAL1_34 Start: 30600, Stop: 31448, Start Num: 16

Candidate Starts for GAL1_34:

(Start: 16 @30600 has 1 MA's), (21, 30642), (28, 30684), (38, 30768), (52, 30888), (81, 31203), (88, 31326), (89, 31338), (107, 31428),

Gene: GMA4_34 Start: 28046, Stop: 28852, Start Num: 17

Candidate Starts for GMA4_34:

(Start: 17 @28046 has 9 MA's), (31, 28157), (32, 28160), (42, 28265), (44, 28271), (50, 28304), (53, 28322), (54, 28346), (58, 28388), (66, 28412), (70, 28517), (79, 28616), (80, 28634), (86, 28709), (90, 28772), (103, 28835), (106, 28841),

Gene: Gallop_41 Start: 31359, Stop: 32234, Start Num: 14

Candidate Starts for Gallop_41:

(14, 31359), (15, 31368), (27, 31461), (33, 31509), (49, 31644), (64, 31758), (67, 31767), (75, 31929), (84, 32028),

Gene: Gorge_51 Start: 35716, Stop: 36519, Start Num: 17

Candidate Starts for Gorge_51:

(Start: 17 @35716 has 9 MA's), (22, 35755), (28, 35791), (32, 35830), (36, 35860), (39, 35899), (47, 35962), (49, 35965), (52, 35989), (53, 35992), (54, 36016), (55, 36034), (56, 36043), (60, 36064), (72, 36220), (73, 36223), (77, 36271), (78, 36280), (81, 36307), (87, 36409), (91, 36442), (92, 36445), (94, 36454), (95, 36460), (99, 36493), (105, 36508),

Gene: Holliday_59 Start: 38259, Stop: 39098, Start Num: 19

Candidate Starts for Holliday_59:

(8, 38094), (Start: 19 @38259 has 2 MA's), (21, 38286), (50, 38502), (52, 38517), (55, 38562), (96, 39027), (102, 39057), (107, 39078),

Gene: Jabbawokkie_61 Start: 36226, Stop: 37107, Start Num: 12

Candidate Starts for Jabbawokkie_61:

(Start: 12 @36226 has 8 MA's), (25, 36322), (30, 36367), (49, 36508), (68, 36643), (79, 36838), (82, 36880), (108, 37096),

Gene: James_50 Start: 35673, Stop: 36476, Start Num: 17

Candidate Starts for James_50:

(Start: 17 @35673 has 9 MA's), (22, 35712), (28, 35748), (32, 35787), (36, 35817), (39, 35856), (47, 35919), (49, 35922), (52, 35946), (53, 35949), (54, 35973), (55, 35991), (56, 36000), (60, 36021), (72,

36177), (73, 36180), (77, 36228), (78, 36237), (81, 36264), (87, 36366), (91, 36399), (92, 36402), (94, 36411), (95, 36417), (99, 36450), (105, 36465),

Gene: Leroy_58 Start: 36986, Stop: 37864, Start Num: 13

Candidate Starts for Leroy_58:

(Start: 13 @36986 has 1 MA's), (25, 37082), (26, 37088), (96, 37793), (102, 37823), (107, 37844),

Gene: LilSpotty_46 Start: 32678, Stop: 33556, Start Num: 12

Candidate Starts for LilSpotty_46:

(5, 32504), (Start: 12 @32678 has 8 MA's), (25, 32774), (43, 32927), (46, 32951), (49, 32957), (68, 33092), (82, 33329), (102, 33515),

Gene: Malisha_52 Start: 35598, Stop: 36443, Start Num: 16

Candidate Starts for Malisha_52:

(9, 35511), (Start: 16 @35598 has 1 MA's), (28, 35682), (52, 35883), (81, 36198), (88, 36321), (89, 36333), (107, 36423),

Gene: Mattes_50 Start: 35673, Stop: 36476, Start Num: 17

Candidate Starts for Mattes_50:

(Start: 17 @35673 has 9 MA's), (22, 35712), (28, 35748), (32, 35787), (36, 35817), (39, 35856), (47, 35919), (49, 35922), (52, 35946), (53, 35949), (54, 35973), (55, 35991), (56, 36000), (60, 36021), (72, 36177), (73, 36180), (77, 36228), (78, 36237), (81, 36264), (87, 36366), (91, 36399), (92, 36402), (94, 36411), (95, 36417), (99, 36450), (105, 36465),

Gene: MicyPS_67 Start: 44107, Stop: 43298, Start Num: 23

Candidate Starts for MicyPS_67:

(Start: 23 @44107 has 1 MA's), (29, 44056), (34, 44026), (37, 43993), (45, 43900), (48, 43894), (51, 43876), (75, 43600), (84, 43501), (89, 43405),

Gene: ODay_62 Start: 38884, Stop: 39768, Start Num: 12

Candidate Starts for ODay_62:

(1, 38563), (2, 38569), (3, 38599), (4, 38647), (6, 38722), (7, 38728), (Start: 12 @38884 has 8 MA's), (25, 38986), (26, 38992), (96, 39697), (102, 39727), (107, 39748),

Gene: Phabba_184 Start: 96671, Stop: 95853, Start Num: 20

Candidate Starts for Phabba_184:

(Start: 20 @96671 has 1 MA's), (31, 96584), (42, 96479), (49, 96449), (50, 96440), (53, 96422), (54, 96398), (55, 96380), (59, 96347), (66, 96314), (67, 96311), (69, 96239), (71, 96182), (79, 96110), (83, 96056), (90, 95948), (93, 95942), (98, 95894), (101, 95885), (104, 95876),

Gene: Phabuloso_58 Start: 37489, Stop: 38328, Start Num: 19

Candidate Starts for Phabuloso_58:

(Start: 19 @37489 has 2 MA's), (21, 37516), (33, 37603), (50, 37732), (52, 37747), (55, 37792), (96, 38257), (102, 38287), (107, 38308),

Gene: Philus_50 Start: 35558, Stop: 36361, Start Num: 17

Candidate Starts for Philus_50:

(Start: 17 @35558 has 9 MA's), (22, 35597), (28, 35633), (32, 35672), (36, 35702), (39, 35741), (47, 35804), (49, 35807), (52, 35831), (53, 35834), (54, 35858), (55, 35876), (56, 35885), (60, 35906), (72, 36062), (73, 36065), (77, 36113), (78, 36122), (81, 36149), (87, 36251), (91, 36284), (92, 36287), (94, 36296), (95, 36302), (99, 36335), (105, 36350),

Gene: Saal_49 Start: 35536, Stop: 36339, Start Num: 17

Candidate Starts for Saal_49:

(Start: 17 @35536 has 9 MA's), (22, 35575), (28, 35611), (32, 35650), (36, 35680), (39, 35719), (47, 35782), (49, 35785), (52, 35809), (53, 35812), (54, 35836), (55, 35854), (56, 35863), (60, 35884), (72, 36040), (73, 36043), (77, 36091), (78, 36100), (81, 36127), (87, 36229), (91, 36262), (92, 36265), (94, 36274), (95, 36280), (99, 36313), (105, 36328),

Gene: Stuck_49 Start: 38539, Stop: 39417, Start Num: 12

Candidate Starts for Stuck_49:

(Start: 12 @38539 has 8 MA's), (25, 38635), (43, 38788), (46, 38812), (49, 38818), (68, 38953), (82, 39190), (102, 39376),

Gene: SwagPiggett_52 Start: 36591, Stop: 37367, Start Num: 17

Candidate Starts for SwagPiggett_52:

(Start: 17 @36591 has 9 MA's), (22, 36630), (28, 36666), (32, 36705), (36, 36735), (39, 36774), (47, 36810), (49, 36813), (52, 36837), (53, 36840), (54, 36864), (55, 36882), (56, 36891), (60, 36912), (72, 37068), (73, 37071), (77, 37119), (78, 37128), (81, 37155), (87, 37257), (91, 37290), (92, 37293), (94, 37302), (95, 37308), (99, 37341), (105, 37356),

Gene: Tortellini_40 Start: 34462, Stop: 35259, Start Num: 18

Candidate Starts for Tortellini_40:

(Start: 18 @34462 has 2 MA's), (28, 34528), (32, 34567), (36, 34597), (39, 34636), (47, 34699), (49, 34702), (52, 34726), (53, 34729), (54, 34753), (55, 34771), (56, 34780), (61, 34804), (65, 34825), (79, 35017), (85, 35104), (96, 35209), (97, 35212),

Gene: Xavia_42 Start: 35045, Stop: 35842, Start Num: 18

Candidate Starts for Xavia_42:

(Start: 18 @35045 has 2 MA's), (28, 35111), (32, 35150), (36, 35180), (39, 35219), (47, 35282), (49, 35285), (52, 35309), (53, 35312), (54, 35336), (55, 35354), (56, 35363), (61, 35387), (65, 35408), (79, 35600), (85, 35687), (96, 35792), (97, 35795),

Gene: Zapner_59 Start: 36227, Stop: 37108, Start Num: 12

Candidate Starts for Zapner_59:

(Start: 12 @36227 has 8 MA's), (25, 36323), (30, 36368), (49, 36509), (68, 36644), (79, 36839), (82, 36881), (108, 37097),

Gene: Zodiariah_46 Start: 37518, Stop: 38399, Start Num: 12

Candidate Starts for Zodiariah_46:

(10, 37506), (Start: 12 @37518 has 8 MA's), (25, 37620), (27, 37629), (35, 37698), (49, 37800), (62, 37911), (89, 38289), (100, 38355), (107, 38379),