

Pham 203095



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 203095 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203095 has 41 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Papez_9, TheloniousMonk_9, LilBib_8, Kenmech_10
- Track 2 : Norz_9, Monet_9
- Track 3 : Squee_8, Gwendoluna_9, KBG_9, Graduation_10, Solon_8, Nerujay_9
- Track 4 : Hermia_10, Buttons_9, SpikeBT_9, Edtherson_9, Treddle_9
- Track 5 : QTRlifeCrisis_8, Zeuska_8
- Track 6 : DD5_9, BillKnuckles_9
- Track 7 : Attis_64, SoilAssassin_64
- Track 8 : GMA3_25
- Track 9 : Daredevil_91, Towmatter_93
- Track 10 : Bantam_102, SpeedDemon_1040
- Track 11 : Mollymur_102
- Track 12 : DatBoi_98
- Track 13 : StAnnes_29, Soul22_35, Hamulus_31, Kingsley_29
- Track 14 : Ovechkin_31
- Track 15 : Ruby_32, MisterCuddles_32, Girr_32
- Track 16 : Mozy_32
- Track 17 : Mozy_92
- Track 18 : Omega_51

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

The start number called the most often in the published annotations is 15, it was called in 21 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BillKnuckles_9, Buttons_9, DD5_9, Edtherson_9, Graduation_10, Gwendoluna_9, Hermia_10, KBG_9, Kenmech_10, LilBib_8, Monet_9, Nerujay_9, Norz_9, Papez_9, QTRlifeCrisis_8, Solon_8, SpikeBT_9, Squee_8, TheloniousMonk_9, Treddle_9, Zeuska_8,

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:

- Attis_64, Bantam_102, Daredevil_91, DatBoi_98, GMA3_25, Girr_32, Hamulus_31, Kingsley_29, MisterCuddles_32, Mollymur_102, Mozy_32, Mozy_92, Omega_51, Ovechkin_31, Ruby_32, SoilAssassin_64, Soul22_35, SpeedDemon_1040, StAnnes_29, Towmatter_93,

Summary by start number:

Start 2:

- Found in 5 of 41 (12.2%) of genes in pham
- Manual Annotations of this start: 1 of 39
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Ovechkin_31 (F1),

Start 3:

- Found in 1 of 41 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Omega_51 (J),

Start 4:

- Found in 5 of 41 (12.2%) of genes in pham
- Manual Annotations of this start: 4 of 39
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Hamulus_31 (F1), Kingsley_29 (F1), Soul22_35 (F2), StAnnes_29 (F1),

Start 5:

- Found in 3 of 41 (7.3%) of genes in pham
- Manual Annotations of this start: 3 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Girr_32 (F1), MisterCuddles_32 (F1), Ruby_32 (F1),

Start 8:

- Found in 1 of 41 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mozy_92 (F1),

Start 14:

- Found in 1 of 41 (2.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA3_25 (DF2),

Start 15:

- Found in 21 of 41 (51.2%) of genes in pham
- Manual Annotations of this start: 21 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BillKnuckles_9 (A1), Buttons_9 (A1), DD5_9 (A1), Edtherson_9 (A1), Graduation_10 (A1), Gwendoluna_9 (A1), Hermia_10 (A1), KBG_9 (A1), Kenmech_10 (A1), LilBib_8 (A1), Monet_9 (A1), Nerujay_9 (A1), Norz_9 (A1), Papez_9 (A1), QTRlifeCrisis_8 (A1), Solon_8 (A1), SpikeBT_9 (A1),

Squee_8 (A1), TheloniousMonk_9 (A1), Treddle_9 (A1), Zeuska_8 (A1),

Start 16:

- Found in 1 of 41 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mozy_32 (F1),

Start 17:

- Found in 2 of 41 (4.9%) of genes in pham
- Manual Annotations of this start: 2 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Attis_64 (CZ2), SoilAssassin_64 (CZ2),

Start 25:

- Found in 6 of 41 (14.6%) of genes in pham
- Manual Annotations of this start: 5 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bantam_102 (DL), Daredevil_91 (DL), DatBoi_98 (DL), Mollymur_102 (DL), SpeedDemon_1040 (DL), Towmatter_93 (DL),

Summary by clusters:

There are 7 clusters represented in this pham: F1, DL, CZ2, J, F2, DF2, A1,

Info for manual annotations of cluster A1:

- Start number 15 was manually annotated 21 times for cluster A1.

Info for manual annotations of cluster CZ2:

- Start number 17 was manually annotated 2 times for cluster CZ2.

Info for manual annotations of cluster DL:

- Start number 25 was manually annotated 5 times for cluster DL.

Info for manual annotations of cluster F1:

- Start number 2 was manually annotated 1 time for cluster F1.
- Start number 4 was manually annotated 3 times for cluster F1.
- Start number 5 was manually annotated 3 times for cluster F1.
- Start number 8 was manually annotated 1 time for cluster F1.
- Start number 16 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 4 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster J:

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

Gene Information:

Gene: Attis_64 Start: 43105, Stop: 43650, Start Num: 17

Candidate Starts for Attis_64:

(Start: 17 @43105 has 2 MA's), (22, 43147), (24, 43168), (27, 43192), (36, 43231), (41, 43243), (49, 43273), (58, 43378), (67, 43516),

Gene: Bantam_102 Start: 67594, Stop: 68172, Start Num: 25

Candidate Starts for Bantam_102:

(1, 67276), (11, 67462), (Start: 25 @67594 has 5 MA's), (33, 67642), (39, 67660), (45, 67678), (51, 67711), (59, 67813), (62, 67864), (71, 67966), (75, 68092),

Gene: BillKnuckles_9 Start: 4709, Stop: 5290, Start Num: 15

Candidate Starts for BillKnuckles_9:

(Start: 15 @4709 has 21 MA's), (26, 4811), (30, 4832), (46, 4880), (70, 5159),

Gene: Buttons_9 Start: 4220, Stop: 4798, Start Num: 15

Candidate Starts for Buttons_9:

(Start: 15 @4220 has 21 MA's), (31, 4346), (70, 4679),

Gene: DD5_9 Start: 4751, Stop: 5332, Start Num: 15

Candidate Starts for DD5_9:

(Start: 15 @4751 has 21 MA's), (26, 4853), (30, 4874), (46, 4922), (70, 5201),

Gene: Daredevil_91 Start: 63069, Stop: 63638, Start Num: 25

Candidate Starts for Daredevil_91:

(1, 62760), (7, 62871), (Start: 25 @63069 has 5 MA's), (51, 63186), (56, 63237), (59, 63291), (61, 63336), (72, 63480), (74, 63546),

Gene: DatBoi_98 Start: 66730, Stop: 67308, Start Num: 25

Candidate Starts for DatBoi_98:

(Start: 25 @66730 has 5 MA's), (33, 66778), (45, 66814), (50, 66838), (51, 66847), (64, 67036), (75, 67228),

Gene: Edtherson_9 Start: 4530, Stop: 5108, Start Num: 15

Candidate Starts for Edtherson_9:

(Start: 15 @4530 has 21 MA's), (31, 4656), (70, 4989),

Gene: GMA3_25 Start: 35593, Stop: 36075, Start Num: 14

Candidate Starts for GMA3_25:

(14, 35593), (20, 35656), (29, 35722), (35, 35743), (43, 35764), (47, 35773), (54, 35809), (66, 36034),

Gene: Girr_32 Start: 27712, Stop: 28464, Start Num: 5

Candidate Starts for Girr_32:

(Start: 5 @27712 has 3 MA's), (10, 27775), (12, 27823), (19, 27871), (37, 27982), (40, 27991), (57, 28117), (73, 28384),

Gene: Graduation_10 Start: 4816, Stop: 5397, Start Num: 15

Candidate Starts for Graduation_10:

(Start: 15 @4816 has 21 MA's), (26, 4918), (30, 4939), (46, 4987), (70, 5266),

Gene: Gwendoluna_9 Start: 4700, Stop: 5281, Start Num: 15

Candidate Starts for Gwendoluna_9:

(Start: 15 @4700 has 21 MA's), (26, 4802), (30, 4823), (46, 4871), (70, 5150),

Gene: Hamulus_31 Start: 27654, Stop: 28418, Start Num: 4

Candidate Starts for Hamulus_31:

(Start: 2 @27627 has 1 MA's), (Start: 4 @27654 has 4 MA's), (10, 27729), (12, 27777), (19, 27825), (37, 27936), (40, 27945), (57, 28071), (73, 28338),

Gene: Hermia_10 Start: 4783, Stop: 5361, Start Num: 15

Candidate Starts for Hermia_10:

(Start: 15 @4783 has 21 MA's), (31, 4909), (70, 5242),

Gene: KBG_9 Start: 4959, Stop: 5540, Start Num: 15

Candidate Starts for KBG_9:

(Start: 15 @4959 has 21 MA's), (26, 5061), (30, 5082), (46, 5130), (70, 5409),

Gene: Kenmech_10 Start: 4617, Stop: 5195, Start Num: 15

Candidate Starts for Kenmech_10:

(Start: 15 @4617 has 21 MA's), (31, 4743), (70, 5076),

Gene: Kingsley_29 Start: 26483, Stop: 27247, Start Num: 4

Candidate Starts for Kingsley_29:

(Start: 2 @26456 has 1 MA's), (Start: 4 @26483 has 4 MA's), (10, 26558), (12, 26606), (19, 26654), (37, 26765), (40, 26774), (57, 26900), (73, 27167),

Gene: LilBib_8 Start: 4381, Stop: 4959, Start Num: 15

Candidate Starts for LilBib_8:

(Start: 15 @4381 has 21 MA's), (31, 4507), (70, 4840),

Gene: MisterCuddles_32 Start: 27712, Stop: 28464, Start Num: 5

Candidate Starts for MisterCuddles_32:

(Start: 5 @27712 has 3 MA's), (10, 27775), (12, 27823), (19, 27871), (37, 27982), (40, 27991), (57, 28117), (73, 28384),

Gene: Mollymur_102 Start: 68397, Stop: 68978, Start Num: 25

Candidate Starts for Mollymur_102:

(1, 68076), (9, 68211), (Start: 25 @68397 has 5 MA's), (51, 68514), (55, 68541), (56, 68565), (60, 68646), (69, 68757), (74, 68886), (76, 68916), (77, 68922),

Gene: Monet_9 Start: 4498, Stop: 5076, Start Num: 15

Candidate Starts for Monet_9:

(Start: 15 @4498 has 21 MA's), (31, 4624), (70, 4957),

Gene: Mozy_32 Start: 27800, Stop: 28405, Start Num: 16

Candidate Starts for Mozy_32:

(10, 27716), (Start: 16 @27800 has 1 MA's), (26, 27872), (30, 27896), (32, 27902), (42, 27932), (48, 27953), (52, 27974), (58, 28061),

Gene: Mozy_92 Start: 49652, Stop: 50401, Start Num: 8

Candidate Starts for Mozy_92:

(6, 49640), (Start: 8 @49652 has 1 MA's), (18, 49799), (38, 49931), (43, 49946), (53, 49991), (63, 50144),

Gene: Nerujay_9 Start: 4453, Stop: 5034, Start Num: 15

Candidate Starts for Nerujay_9:

(Start: 15 @4453 has 21 MA's), (26, 4555), (30, 4576), (46, 4624), (70, 4903),

Gene: Norz_9 Start: 4534, Stop: 5112, Start Num: 15

Candidate Starts for Norz_9:

(Start: 15 @4534 has 21 MA's), (31, 4660), (70, 4993),

Gene: Omega_51 Start: 42659, Stop: 43288, Start Num: 3

Candidate Starts for Omega_51:

(Start: 3 @42659 has 1 MA's), (10, 42746), (13, 42809), (21, 42875), (23, 42899), (28, 42932), (34, 42965), (44, 42986), (46, 42989), (52, 43022), (57, 43100), (65, 43211), (68, 43259),

Gene: Ovechkin_31 Start: 27645, Stop: 28436, Start Num: 2

Candidate Starts for Ovechkin_31:

(Start: 2 @27645 has 1 MA's), (Start: 4 @27672 has 4 MA's), (10, 27747), (12, 27795), (19, 27843), (37, 27954), (40, 27963), (57, 28089), (73, 28356),

Gene: Papez_9 Start: 5271, Stop: 5849, Start Num: 15

Candidate Starts for Papez_9:

(Start: 15 @5271 has 21 MA's), (31, 5397), (70, 5730),

Gene: QTRlifeCrisis_8 Start: 4494, Stop: 5075, Start Num: 15

Candidate Starts for QTRlifeCrisis_8:

(Start: 15 @4494 has 21 MA's), (26, 4596), (30, 4617), (46, 4665), (70, 4944),

Gene: Ruby_32 Start: 27712, Stop: 28464, Start Num: 5

Candidate Starts for Ruby_32:

(Start: 5 @27712 has 3 MA's), (10, 27775), (12, 27823), (19, 27871), (37, 27982), (40, 27991), (57, 28117), (73, 28384),

Gene: SoilAssassin_64 Start: 43104, Stop: 43649, Start Num: 17

Candidate Starts for SoilAssassin_64:

(Start: 17 @43104 has 2 MA's), (22, 43146), (24, 43167), (27, 43191), (36, 43230), (41, 43242), (49, 43272), (58, 43377), (67, 43515),

Gene: Solon_8 Start: 4653, Stop: 5234, Start Num: 15

Candidate Starts for Solon_8:

(Start: 15 @4653 has 21 MA's), (26, 4755), (30, 4776), (46, 4824), (70, 5103),

Gene: Soul22_35 Start: 27040, Stop: 27804, Start Num: 4

Candidate Starts for Soul22_35:

(Start: 2 @27013 has 1 MA's), (Start: 4 @27040 has 4 MA's), (10, 27115), (12, 27163), (19, 27211), (37, 27322), (40, 27331), (57, 27457), (73, 27724),

Gene: SpeedDemon_1040 Start: 70108, Stop: 70686, Start Num: 25

Candidate Starts for SpeedDemon_1040:

(1, 69790), (11, 69976), (Start: 25 @70108 has 5 MA's), (33, 70156), (39, 70174), (45, 70192), (51, 70225), (59, 70327), (62, 70378), (71, 70480), (75, 70606),

Gene: SpikeBT_9 Start: 4433, Stop: 5011, Start Num: 15

Candidate Starts for SpikeBT_9:

(Start: 15 @4433 has 21 MA's), (31, 4559), (70, 4892),

Gene: Squee_8 Start: 4160, Stop: 4741, Start Num: 15

Candidate Starts for Squee_8:

(Start: 15 @4160 has 21 MA's), (26, 4262), (30, 4283), (46, 4331), (70, 4610),

Gene: StAnnes_29 Start: 27239, Stop: 28003, Start Num: 4

Candidate Starts for StAnnes_29:

(Start: 2 @27212 has 1 MA's), (Start: 4 @27239 has 4 MA's), (10, 27314), (12, 27362), (19, 27410), (37, 27521), (40, 27530), (57, 27656), (73, 27923),

Gene: TheloniousMonk_9 Start: 4484, Stop: 5062, Start Num: 15

Candidate Starts for TheloniousMonk_9:

(Start: 15 @4484 has 21 MA's), (31, 4610), (70, 4943),

Gene: Towmatter_93 Start: 63151, Stop: 63720, Start Num: 25

Candidate Starts for Towmatter_93:

(1, 62842), (7, 62953), (Start: 25 @63151 has 5 MA's), (51, 63268), (56, 63319), (59, 63373), (61, 63418), (72, 63562), (74, 63628),

Gene: Treddle_9 Start: 4499, Stop: 5077, Start Num: 15

Candidate Starts for Treddle_9:

(Start: 15 @4499 has 21 MA's), (31, 4625), (70, 4958),

Gene: Zeuska_8 Start: 4378, Stop: 4959, Start Num: 15

Candidate Starts for Zeuska_8:

(Start: 15 @4378 has 21 MA's), (26, 4480), (30, 4501), (46, 4549), (70, 4828),