

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 289633 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289633 has 30 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Wilde_82
- Track 2 : Tank_80
- Track 3 : Ren19_99
- Track 4 : Ollypop_104
- Track 5 : Greely_15
- Track 6 : Phabba_20
- Track 7 : BearBQ_55
- Track 8 : CherryTomatoes_46
- Track 9 : Pupper_44, SCentae_44
- Track 10 : Skog_103
- Track 11 : Sprinklemunch_58
- Track 12 : Kelcole_56, RobinRose_60, CandC_57, Romm_60, Fregley_58, OneinaGillian_58
- Track 13 : Tempo_58, Marcie_63
- Track 14 : BirdInFrench_58, Wilca_58
- Track 15 : Pepe25_57
- Track 16 : KillerQueen_59
- Track 17 : BellaJr_63, AbbyDaisy_72
- Track 18 : Dewdrop_126, Leaf_126
- Track 19 : Hendrix_125
- Track 20 : Rasputia_123

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

The start number called the most often in the published annotations is 22, it was called in 16 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BirdInFrench_58, CandC_57, Dewdrop_126, Fregley_58, Hendrix_125, Kelcole_56, KillerQueen_59, Leaf_126, Marcie_63, OneinaGillian_58, Pepe25_57, Rasputia_123, RobinRose_60, Romm_60, Skog_103, Tempo_58, Wilca_58,

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

- BearBQ_55, Greely_15, Phabba_20,

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

- AbbyDaisy_72, BellaJr_63, CherryTomatoes_46, Ollypop_104, Pupper_44, Ren19_99, SCentae_44, Sprinklemunch_58, Tank_80, Wilde_82,

Summary by start number:

Start 19:

- Found in 2 of 30 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greely_15 (C2), Phabba_20 (C2),

Start 20:

- Found in 6 of 30 (20.0%) of genes in pham
- Manual Annotations of this start: 4 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_72 (AY), BearBQ_55 (DN), BellaJr_63 (FN), Sprinklemunch_58 (DW), Tank_80 (AP1), Wilde_82 (AP1),

Start 21:

- Found in 2 of 30 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ollypop_104 (AP2), Ren19_99 (AP2),

Start 22:

- Found in 20 of 30 (66.7%) of genes in pham
- Manual Annotations of this start: 16 of 25
- Called 85.0% of time when present
- Phage (with cluster) where this start called: BirdInFrench_58 (EG), CandC_57 (EG), Dewdrop_126 (GC), Fregley_58 (EG), Hendrix_125 (GC), Kelcole_56 (EG), KillerQueen_59 (EG), Leaf_126 (GC), Marcie_63 (EG), OneinaGillian_58 (EG), Pepe25_57 (EG), Rasputia_123 (GC), RobinRose_60 (EG), Romm_60 (EG), Skog_103 (DO), Tempo_58 (EG), Wilca_58 (EG),

Start 23:

- Found in 3 of 30 (10.0%) of genes in pham
- Manual Annotations of this start: 3 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryTomatoes_46 (DO), Pupper_44 (DO), SCentae_44 (DO),

Summary by clusters:

There are 10 clusters represented in this pham: DN, DO, AP2, EG, AP1, GC, DW, AY, C2, FN,

Info for manual annotations of cluster AP1:

- Start number 20 was manually annotated 2 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 21 was manually annotated 1 time for cluster AP2.

Info for manual annotations of cluster AY:

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

Info for manual annotations of cluster C2:

- Start number 19 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster DN:

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

Info for manual annotations of cluster DO:

- Start number 22 was manually annotated 1 time for cluster DO.
- Start number 23 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster EG:

- Start number 22 was manually annotated 11 times for cluster EG.

Info for manual annotations of cluster GC:

- Start number 22 was manually annotated 4 times for cluster GC.

Gene Information:

Gene: AbbyDaisy_72 Start: 38376, Stop: 38801, Start Num: 20

Candidate Starts for AbbyDaisy_72:

(Start: 20 @38376 has 4 MA's), (34, 38481), (48, 38604), (49, 38616), (79, 38790),

Gene: BearBQ_55 Start: 39049, Stop: 39474, Start Num: 20

Candidate Starts for BearBQ_55:

(Start: 20 @39049 has 4 MA's), (Start: 22 @39055 has 16 MA's), (26, 39106), (48, 39271), (50, 39289), (51, 39292), (58, 39340), (60, 39346), (67, 39379),

Gene: BellaJr_63 Start: 36460, Stop: 36885, Start Num: 20

Candidate Starts for BellaJr_63:

(Start: 20 @36460 has 4 MA's), (34, 36565), (48, 36688), (49, 36700), (79, 36874),

Gene: BirdInFrench_58 Start: 40379, Stop: 39996, Start Num: 22

Candidate Starts for BirdInFrench_58:

(2, 40811), (Start: 22 @40379 has 16 MA's), (41, 40196), (43, 40184), (62, 40076), (64, 40067),

Gene: CandC_57 Start: 39998, Stop: 39618, Start Num: 22

Candidate Starts for CandC_57:

(Start: 22 @39998 has 16 MA's), (35, 39893), (43, 39803), (44, 39797), (64, 39686), (71, 39647),

Gene: CherryTomatoes_46 Start: 15514, Stop: 15930, Start Num: 23

Candidate Starts for CherryTomatoes_46:

(9, 15340), (10, 15379), (16, 15448), (Start: 23 @15514 has 3 MA's), (27, 15565), (50, 15739), (51, 15742), (55, 15757), (60, 15796), (66, 15826), (73, 15877),

Gene: Dewdrop_126 Start: 78247, Stop: 78636, Start Num: 22

Candidate Starts for Dewdrop_126:

(13, 78172), (Start: 22 @78247 has 16 MA's), (35, 78352), (41, 78430), (56, 78514), (61, 78538), (65, 78562),

Gene: Fregley_58 Start: 40263, Stop: 39883, Start Num: 22

Candidate Starts for Fregley_58:

(Start: 22 @40263 has 16 MA's), (35, 40158), (43, 40068), (44, 40062), (64, 39951), (71, 39912),

Gene: Greely_15 Start: 6231, Stop: 6668, Start Num: 19

Candidate Starts for Greely_15:

(8, 6069), (Start: 19 @6231 has 1 MA's), (Start: 22 @6267 has 16 MA's), (30, 6342), (32, 6351), (41, 6453), (45, 6474), (47, 6480), (51, 6513), (52, 6516), (63, 6576), (69, 6618),

Gene: Hendrix_125 Start: 80587, Stop: 80982, Start Num: 22

Candidate Starts for Hendrix_125:

(Start: 22 @80587 has 16 MA's), (24, 80605), (27, 80641), (35, 80692), (40, 80752), (59, 80872), (68, 80923), (70, 80929), (74, 80968), (75, 80971),

Gene: Kelcole_56 Start: 40226, Stop: 39846, Start Num: 22

Candidate Starts for Kelcole_56:

(Start: 22 @40226 has 16 MA's), (35, 40121), (43, 40031), (44, 40025), (64, 39914), (71, 39875),

Gene: KillerQueen_59 Start: 40476, Stop: 40096, Start Num: 22

Candidate Starts for KillerQueen_59:

(Start: 22 @40476 has 16 MA's), (35, 40371), (41, 40293), (43, 40281), (44, 40275), (62, 40173), (64, 40164), (71, 40125),

Gene: Leaf_126 Start: 78247, Stop: 78636, Start Num: 22

Candidate Starts for Leaf_126:

(13, 78172), (Start: 22 @78247 has 16 MA's), (35, 78352), (41, 78430), (56, 78514), (61, 78538), (65, 78562),

Gene: Marcie_63 Start: 41125, Stop: 40742, Start Num: 22

Candidate Starts for Marcie_63:

(Start: 22 @41125 has 16 MA's), (29, 41065), (41, 40942), (43, 40930), (46, 40918), (62, 40822), (64, 40813),

Gene: Ollypop_104 Start: 64769, Stop: 64347, Start Num: 21

Candidate Starts for Ollypop_104:

(1, 65333), (4, 65108), (6, 65057), (Start: 21 @64769 has 1 MA's), (25, 64733), (30, 64691), (31, 64685), (36, 64655), (37, 64649), (48, 64544), (49, 64532), (56, 64490), (72, 64400),

Gene: OneinaGillian_58 Start: 40128, Stop: 39748, Start Num: 22

Candidate Starts for OneinaGillian_58:

(Start: 22 @40128 has 16 MA's), (35, 40023), (43, 39933), (44, 39927), (64, 39816), (71, 39777),

Gene: Pepe25_57 Start: 39689, Stop: 39306, Start Num: 22

Candidate Starts for Pepe25_57:

(2, 40121), (Start: 22 @39689 has 16 MA's), (43, 39494), (62, 39386), (64, 39377),

Gene: Phabba_20 Start: 7021, Stop: 7458, Start Num: 19

Candidate Starts for Phabba_20:

(Start: 19 @7021 has 1 MA's), (Start: 22 @7057 has 16 MA's), (30, 7132), (32, 7141), (41, 7243), (45, 7264), (51, 7303), (52, 7306), (63, 7366), (69, 7408), (71, 7423), (76, 7453),

Gene: Pupper_44 Start: 15353, Stop: 15769, Start Num: 23

Candidate Starts for Pupper_44:

(12, 15272), (18, 15305), (Start: 23 @15353 has 3 MA's), (27, 15404), (50, 15578), (51, 15581), (55, 15596), (60, 15635), (66, 15665), (73, 15716), (78, 15749),

Gene: Rasputia_123 Start: 79029, Stop: 79448, Start Num: 22

Candidate Starts for Rasputia_123:

(Start: 22 @79029 has 16 MA's), (28, 79086), (41, 79212), (42, 79221), (43, 79224), (59, 79323),

Gene: Ren19_99 Start: 61955, Stop: 61536, Start Num: 21

Candidate Starts for Ren19_99:

(Start: 21 @61955 has 1 MA's), (25, 61919), (31, 61871), (37, 61835), (48, 61730), (49, 61718), (58, 61661), (72, 61586),

Gene: RobinRose_60 Start: 40640, Stop: 40260, Start Num: 22

Candidate Starts for RobinRose_60:

(Start: 22 @40640 has 16 MA's), (35, 40535), (43, 40445), (44, 40439), (64, 40328), (71, 40289),

Gene: Romm_60 Start: 40637, Stop: 40257, Start Num: 22

Candidate Starts for Romm_60:

(Start: 22 @40637 has 16 MA's), (35, 40532), (43, 40442), (44, 40436), (64, 40325), (71, 40286),

Gene: SCentae_44 Start: 15352, Stop: 15768, Start Num: 23

Candidate Starts for SCentae_44:

(12, 15271), (18, 15304), (Start: 23 @15352 has 3 MA's), (27, 15403), (50, 15577), (51, 15580), (55, 15595), (60, 15634), (66, 15664), (73, 15715), (78, 15748),

Gene: Skog_103 Start: 42752, Stop: 43174, Start Num: 22

Candidate Starts for Skog_103:

(15, 42683), (Start: 22 @42752 has 16 MA's), (27, 42806), (36, 42863), (45, 42962), (48, 42980), (51, 43001), (57, 43037), (67, 43085),

Gene: Sprinklemunch_58 Start: 40955, Stop: 41362, Start Num: 20

Candidate Starts for Sprinklemunch_58:

(11, 40874), (14, 40895), (17, 40910), (Start: 20 @40955 has 4 MA's), (50, 41189), (51, 41192), (56, 41225), (58, 41240), (60, 41246), (77, 41345),

Gene: Tank_80 Start: 56092, Stop: 55694, Start Num: 20

Candidate Starts for Tank_80:

(3, 56503), (5, 56404), (7, 56335), (Start: 20 @56092 has 4 MA's), (25, 56053), (26, 56035), (33, 55990), (37, 55969), (38, 55963), (39, 55945), (49, 55870), (51, 55861), (53, 55855), (54, 55852), (55, 55846), (61, 55804),

Gene: Tempo_58 Start: 40505, Stop: 40122, Start Num: 22

Candidate Starts for Tempo_58:

(Start: 22 @40505 has 16 MA's), (29, 40445), (41, 40322), (43, 40310), (46, 40298), (62, 40202), (64, 40193),

Gene: Wilca_58 Start: 40379, Stop: 39996, Start Num: 22

Candidate Starts for Wilca_58:

(2, 40811), (Start: 22 @40379 has 16 MA's), (41, 40196), (43, 40184), (62, 40076), (64, 40067),

Gene: Wilde_82 Start: 56436, Stop: 56038, Start Num: 20

Candidate Starts for Wilde_82:

(Start: 20 @56436 has 4 MA's), (25, 56397), (26, 56379), (33, 56334), (37, 56313), (38, 56307), (39, 56289), (49, 56214), (51, 56205), (53, 56199), (54, 56196), (55, 56190), (61, 56148),