

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 194228 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194228 has 32 members, 0 are drafts.

Phages represented in each track:

- Track 1 : MarkPheW_47
- Track 2 : KiSi_48
- Track 3 : Nibb_46
- Track 4 : Oscar_48
- Track 5 : LeMond_48, Scarlett_48
- Track 6 : CheetoDust_43
- Track 7 : AlishaPH_44
- Track 8 : Chris_46
- Track 9 : TribbleTrouble_44
- Track 10 : Keshu_48, Hurricane_47
- Track 11 : Hammy_46
- Track 12 : Amohnition_46
- Track 13 : Ximenita_50
- Track 14 : PhelpsODU_46
- Track 15 : Ekdilam_43
- Track 16 : SirPhilip_46
- Track 17 : Tierra_47, Cain_47, Bryler_47
- Track 18 : Amgine_44, Ellie_42, Fefferhead_44
- Track 19 : Sunflower1121_50
- Track 20 : Shadow1_49
- Track 21 : Krueger_50
- Track 22 : Yuna_50
- Track 23 : Phrank_47
- Track 24 : DarthP_46
- Track 25 : TClif_48
- Track 26 : Syra333_49

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

The start number called the most often in the published annotations is 16, it was called in 20 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amgine_44, Amohnition_46, Bryler_47, Cain_47, DarthP_46, Ekdilam_43, Ellie_42, Fefferhead_44, Hurricane_47, Keshu_48, Krueger_50, PhelpsODU_46, Phrank_47, Shadow1_49, SirPhilip_46, Sunflower1121_50, Syra333_49, TClif_48, Tierra_47, Yuna_50,

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

- AlishaPH_44, CheetoDust_43, Chris_46, Hammy_46, KiSi_48, LeMond_48, MarkPhew_47, Nibb_46, Oscar_48, Scarlett_48, TribbleTrouble_44, Ximenita_50,

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

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Summary by start number:

Start 15:

- Found in 2 of 32 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Ximenita_50 (K6),

Start 16:

- Found in 32 of 32 (100.0%) of genes in pham
- Manual Annotations of this start: 20 of 32
- Called 62.5% of time when present
- Phage (with cluster) where this start called: Amgine_44 (K6), Amohnition_46 (K6), Bryler_47 (K6), Cain_47 (K6), DarthP_46 (K6), Ekdilam_43 (K6), Ellie_42 (K6), Fefferhead_44 (K6), Hurricane_47 (K3), Keshu_48 (K3), Krueger_50 (K6), PhelpsODU_46 (K6), Phrank_47 (K6), Shadow1_49 (K6), SirPhilip_46 (K6), Sunflower1121_50 (K6), Syra333_49 (K6), TClif_48 (K6), Tierra_47 (K6), Yuna_50 (K6),

Start 18:

- Found in 15 of 32 (46.9%) of genes in pham
- Manual Annotations of this start: 5 of 32
- Called 33.3% of time when present
- Phage (with cluster) where this start called: KiSi_48 (K1), LeMond_48 (K1), Nibb_46 (K1), Oscar_48 (K1), Scarlett_48 (K1),

Start 19:

- Found in 19 of 32 (59.4%) of genes in pham
- Manual Annotations of this start: 6 of 32
- Called 31.6% of time when present
- Phage (with cluster) where this start called: AlishaPH_44 (K1), CheetoDust_43 (K1), Chris_46 (K1), Hammy_46 (K6), MarkPhew_47 (K1), TribbleTrouble_44 (K3),

Summary by clusters:

There are 3 clusters represented in this pham: K3, K1, K6,

Info for manual annotations of cluster K1:

- Start number 18 was manually annotated 5 times for cluster K1.
- Start number 19 was manually annotated 4 times for cluster K1.

Info for manual annotations of cluster K3:

- Start number 16 was manually annotated 2 times for cluster K3.
- Start number 19 was manually annotated 1 time for cluster K3.

Info for manual annotations of cluster K6:

- Start number 15 was manually annotated 1 time for cluster K6.
- Start number 16 was manually annotated 18 times for cluster K6.
- Start number 19 was manually annotated 1 time for cluster K6.

Gene Information:

Gene: AlishaPH_44 Start: 35486, Stop: 35671, Start Num: 19

Candidate Starts for AlishaPH_44:

(13, 35390), (Start: 15 @35414 has 1 MA's), (Start: 16 @35432 has 20 MA's), (Start: 19 @35486 has 6 MA's), (20, 35519), (24, 35585), (25, 35600), (29, 35648),

Gene: Amgine_44 Start: 36236, Stop: 36478, Start Num: 16

Candidate Starts for Amgine_44:

(Start: 16 @36236 has 20 MA's), (24, 36389),

Gene: Amohnition_46 Start: 36255, Stop: 36491, Start Num: 16

Candidate Starts for Amohnition_46:

(7, 36156), (Start: 16 @36255 has 20 MA's), (24, 36408), (28, 36453), (31, 36480),

Gene: Bryler_47 Start: 35116, Stop: 35352, Start Num: 16

Candidate Starts for Bryler_47:

(Start: 16 @35116 has 20 MA's), (Start: 18 @35167 has 5 MA's), (Start: 19 @35170 has 6 MA's), (23, 35236),

Gene: Cain_47 Start: 35104, Stop: 35340, Start Num: 16

Candidate Starts for Cain_47:

(Start: 16 @35104 has 20 MA's), (Start: 18 @35155 has 5 MA's), (Start: 19 @35158 has 6 MA's), (23, 35224),

Gene: CheetoDust_43 Start: 34700, Stop: 34885, Start Num: 19

Candidate Starts for CheetoDust_43:

(2, 34433), (8, 34550), (12, 34598), (Start: 16 @34646 has 20 MA's), (17, 34688), (Start: 19 @34700 has 6 MA's), (20, 34733), (24, 34799), (25, 34814), (29, 34862),

Gene: Chris_46 Start: 35995, Stop: 36195, Start Num: 19

Candidate Starts for Chris_46:

(Start: 16 @35941 has 20 MA's), (Start: 19 @35995 has 6 MA's), (23, 36061), (24, 36094), (25, 36109), (26, 36112), (28, 36139),

Gene: DarthP_46 Start: 36145, Stop: 36378, Start Num: 16

Candidate Starts for DarthP_46:

(Start: 16 @36145 has 20 MA's), (Start: 19 @36199 has 6 MA's), (25, 36313), (28, 36343),

Gene: Ekdilam_43 Start: 35707, Stop: 35940, Start Num: 16

Candidate Starts for Ekdilam_43:

(4, 35590), (7, 35608), (Start: 16 @35707 has 20 MA's),

Gene: Ellie_42 Start: 35424, Stop: 35666, Start Num: 16

Candidate Starts for Ellie_42:

(Start: 16 @35424 has 20 MA's), (24, 35577),

Gene: Fefferhead_44 Start: 35375, Stop: 35617, Start Num: 16

Candidate Starts for Fefferhead_44:

(Start: 16 @35375 has 20 MA's), (24, 35528),

Gene: Hammy_46 Start: 36187, Stop: 36366, Start Num: 19

Candidate Starts for Hammy_46:

(Start: 16 @36133 has 20 MA's), (Start: 19 @36187 has 6 MA's), (25, 36301), (28, 36331),

Gene: Hurricane_47 Start: 35860, Stop: 36099, Start Num: 16

Candidate Starts for Hurricane_47:

(Start: 16 @35860 has 20 MA's), (23, 35980), (28, 36058), (31, 36085),

Gene: Keshu_48 Start: 35918, Stop: 36157, Start Num: 16

Candidate Starts for Keshu_48:

(Start: 16 @35918 has 20 MA's), (23, 36038), (28, 36116), (31, 36143),

Gene: KiSi_48 Start: 36394, Stop: 36600, Start Num: 18

Candidate Starts for KiSi_48:

(1, 36079), (3, 36205), (6, 36235), (Start: 16 @36343 has 20 MA's), (Start: 18 @36394 has 5 MA's), (Start: 19 @36397 has 6 MA's), (22, 36448), (23, 36463), (25, 36511),

Gene: Krueger_50 Start: 36110, Stop: 36346, Start Num: 16

Candidate Starts for Krueger_50:

(Start: 16 @36110 has 20 MA's), (Start: 18 @36161 has 5 MA's), (23, 36230), (24, 36263), (25, 36278), (27, 36290),

Gene: LeMond_48 Start: 36378, Stop: 36584, Start Num: 18

Candidate Starts for LeMond_48:

(Start: 16 @36327 has 20 MA's), (Start: 18 @36378 has 5 MA's), (Start: 19 @36381 has 6 MA's), (23, 36447), (25, 36495), (27, 36507),

Gene: MarkPhew_47 Start: 35823, Stop: 36026, Start Num: 19

Candidate Starts for MarkPhew_47:

(Start: 16 @35769 has 20 MA's), (Start: 19 @35823 has 6 MA's), (21, 35865), (25, 35937), (26, 35940), (28, 35967), (30, 35991),

Gene: Nibb_46 Start: 35544, Stop: 35738, Start Num: 18

Candidate Starts for Nibb_46:

(Start: 16 @35493 has 20 MA's), (Start: 18 @35544 has 5 MA's), (Start: 19 @35547 has 6 MA's), (23, 35613), (25, 35661),

Gene: Oscar_48 Start: 36280, Stop: 36486, Start Num: 18

Candidate Starts for Oscar_48:

(Start: 16 @36229 has 20 MA's), (Start: 18 @36280 has 5 MA's), (Start: 19 @36283 has 6 MA's), (25, 36397), (27, 36409),

Gene: PhelpsODU_46 Start: 35137, Stop: 35373, Start Num: 16

Candidate Starts for PhelpsODU_46:

(5, 35029), (Start: 16 @35137 has 20 MA's), (Start: 18 @35188 has 5 MA's), (Start: 19 @35191 has 6 MA's), (23, 35257), (24, 35290),

Gene: Phrank_47 Start: 35094, Stop: 35330, Start Num: 16

Candidate Starts for Phrank_47:

(11, 35046), (Start: 16 @35094 has 20 MA's), (Start: 18 @35145 has 5 MA's), (Start: 19 @35148 has 6 MA's), (23, 35214),

Gene: Scarlett_48 Start: 36272, Stop: 36478, Start Num: 18

Candidate Starts for Scarlett_48:

(Start: 16 @36221 has 20 MA's), (Start: 18 @36272 has 5 MA's), (Start: 19 @36275 has 6 MA's), (23, 36341), (25, 36389), (27, 36401),

Gene: Shadow1_49 Start: 36255, Stop: 36491, Start Num: 16

Candidate Starts for Shadow1_49:

(Start: 16 @36255 has 20 MA's), (Start: 18 @36306 has 5 MA's), (23, 36375), (27, 36435),

Gene: SirPhilip_46 Start: 36474, Stop: 36710, Start Num: 16

Candidate Starts for SirPhilip_46:

(9, 36405), (11, 36426), (Start: 16 @36474 has 20 MA's), (Start: 18 @36525 has 5 MA's), (Start: 19 @36528 has 6 MA's), (24, 36627), (28, 36672),

Gene: Sunflower1121_50 Start: 36356, Stop: 36592, Start Num: 16

Candidate Starts for Sunflower1121_50:

(Start: 16 @36356 has 20 MA's), (Start: 18 @36407 has 5 MA's), (23, 36476), (25, 36524), (27, 36536),

Gene: Syra333_49 Start: 36023, Stop: 36259, Start Num: 16

Candidate Starts for Syra333_49:

(Start: 16 @36023 has 20 MA's), (Start: 18 @36074 has 5 MA's), (23, 36143), (27, 36203),

Gene: TClif_48 Start: 36322, Stop: 36570, Start Num: 16

Candidate Starts for TClif_48:

(Start: 16 @36322 has 20 MA's), (20, 36409), (24, 36475), (25, 36490), (28, 36520),

Gene: Tierra_47 Start: 35905, Stop: 36141, Start Num: 16

Candidate Starts for Tierra_47:

(Start: 16 @35905 has 20 MA's), (Start: 18 @35956 has 5 MA's), (Start: 19 @35959 has 6 MA's), (23, 36025),

Gene: TribelTrouble_44 Start: 35315, Stop: 35500, Start Num: 19

Candidate Starts for TribelTrouble_44:

(Start: 16 @35261 has 20 MA's), (Start: 19 @35315 has 6 MA's), (23, 35381),

Gene: Ximenita_50 Start: 36194, Stop: 36445, Start Num: 15

Candidate Starts for Ximenita_50:

(10, 36161), (14, 36191), (Start: 15 @36194 has 1 MA's), (Start: 16 @36209 has 20 MA's), (Start: 19 @36263 has 6 MA's), (23, 36329), (25, 36377), (27, 36389),

Gene: Yuna_50 Start: 36971, Stop: 37204, Start Num: 16

Candidate Starts for Yuna_50:

(Start: 16 @36971 has 20 MA's), (23, 37091), (25, 37139), (27, 37151),