

Pham 165225



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 165225 Report

This analysis was run 07/09/24 on database version 566.

Pham number 165225 has 28 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Vulpecula_49, Brynnie_49
- Track 2 : Basilisk_50, Ruchi_49
- Track 3 : Orcanus_51
- Track 4 : Eesa_50
- Track 5 : Jamun_49
- Track 6 : Galaxy_49
- Track 7 : Abidatro_52
- Track 8 : TaylorSipht_51
- Track 9 : Chickaboom_55
- Track 10 : Kepler_53, Amelia_52, Cote_54, Polka_52, Lunar_53, HannahPhantana_60
- Track 11 : Kuleana_53
- Track 12 : Coral_52
- Track 13 : Melons_53, Daob_54
- Track 14 : PhluffyCoco_53
- Track 15 : Juno112_53, KHumphrey_52, RedFox_53
- Track 16 : Andrew_54, Leona_52
- Track 17 : Renna12_52

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

The start number called the most often in the published annotations is 10, it was called in 19 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abidatro_52, Amelia_52, Basilisk_50, Brynnie_49, Chickaboom_55, Coral_52, Cote_54, Daob_54, Eesa_50, Galaxy_49, HannahPhantana_60, Jamun_49, Kepler_53, Kuleana_53, Lunar_53, Melons_53, Orcanus_51, Polka_52, Ruchi_49, TaylorSipht_51, Vulpecula_49,

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:

- Andrew_54, Juno112_53, KHumphrey_52, Leona_52, PhluffyCoco_53, RedFox_53, Renna12_52,

Summary by start number:

Start 8:

- Found in 7 of 28 (25.0%) of genes in pham
- Manual Annotations of this start: 4 of 23
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Andrew_54 (AS3), Juno112_53 (AS3), KHumphrey_52 (AS3), Leona_52 (AS3), RedFox_53 (AS3), Renna12_52 (AS3),

Start 10:

- Found in 21 of 28 (75.0%) of genes in pham
- Manual Annotations of this start: 19 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abidatro_52 (AS1), Amelia_52 (AS2), Basilisk_50 (AS1), Brynnie_49 (AS1), Chickaboom_55 (AS1), Coral_52 (AS2), Cote_54 (AS2), Daob_54 (AS2), Eesa_50 (AS1), Galaxy_49 (AS1), HannahPhantana_60 (AS2), Jamun_49 (AS1), Kepler_53 (AS2), Kuleana_53 (AS2), Lunar_53 (AS2), Melons_53 (AS2), Orcanus_51 (AS1), Polka_52 (AS2), Ruchi_49 (AS1), TaylorSipht_51 (AS1), Vulpecula_49 (AS1),

Start 12:

- Found in 8 of 28 (28.6%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: PhluffyCoco_53 (AS3),

Summary by clusters:

There are 3 clusters represented in this pham: AS3, AS2, AS1,

Info for manual annotations of cluster AS1:

- Start number 10 was manually annotated 10 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 10 was manually annotated 9 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 8 was manually annotated 4 times for cluster AS3.

Gene Information:

Gene: Abidatro_52 Start: 33557, Stop: 33799, Start Num: 10

Candidate Starts for Abidatro_52:

(Start: 10 @33557 has 19 MA's), (11, 33596), (14, 33605), (15, 33620), (17, 33629),

Gene: Amelia_52 Start: 32428, Stop: 32658, Start Num: 10

Candidate Starts for Amelia_52:

(3, 32263), (7, 32338), (Start: 10 @32428 has 19 MA's), (13, 32461), (17, 32485), (22, 32506), (25, 32551), (26, 32560), (29, 32578), (33, 32614),

Gene: Andrew_54 Start: 32798, Stop: 33043, Start Num: 8

Candidate Starts for Andrew_54:

(Start: 8 @32798 has 4 MA's), (9, 32807), (12, 32843), (13, 32846), (15, 32864), (27, 32957), (31, 32978),

Gene: Basilisk_50 Start: 32777, Stop: 33019, Start Num: 10

Candidate Starts for Basilisk_50:

(Start: 10 @32777 has 19 MA's), (11, 32816), (14, 32825), (15, 32840), (17, 32849), (27, 32930),

Gene: Brynnie_49 Start: 32634, Stop: 32876, Start Num: 10

Candidate Starts for Brynnie_49:

(Start: 10 @32634 has 19 MA's), (11, 32673), (14, 32682), (15, 32697), (16, 32703), (17, 32706), (27, 32787),

Gene: Chickaboom_55 Start: 33089, Stop: 33352, Start Num: 10

Candidate Starts for Chickaboom_55:

(2, 32888), (4, 32942), (5, 32957), (Start: 10 @33089 has 19 MA's), (11, 33128), (14, 33137), (15, 33152), (16, 33158), (18, 33173), (19, 33179), (20, 33182), (27, 33263),

Gene: Coral_52 Start: 32296, Stop: 32523, Start Num: 10

Candidate Starts for Coral_52:

(3, 32131), (7, 32206), (Start: 10 @32296 has 19 MA's), (13, 32326), (17, 32350), (22, 32371), (26, 32425), (29, 32443), (33, 32479),

Gene: Cote_54 Start: 32769, Stop: 32996, Start Num: 10

Candidate Starts for Cote_54:

(3, 32604), (7, 32679), (Start: 10 @32769 has 19 MA's), (13, 32799), (17, 32823), (22, 32844), (25, 32889), (26, 32898), (29, 32916), (33, 32952),

Gene: Daob_54 Start: 32780, Stop: 33007, Start Num: 10

Candidate Starts for Daob_54:

(3, 32615), (7, 32690), (Start: 10 @32780 has 19 MA's), (13, 32810), (17, 32834), (22, 32855), (25, 32900), (29, 32927), (33, 32963),

Gene: Eesa_50 Start: 34151, Stop: 34402, Start Num: 10

Candidate Starts for Eesa_50:

(Start: 10 @34151 has 19 MA's), (11, 34190), (15, 34214), (17, 34223), (24, 34259), (27, 34304),

Gene: Galaxy_49 Start: 31972, Stop: 32214, Start Num: 10

Candidate Starts for Galaxy_49:

(Start: 10 @31972 has 19 MA's), (11, 32011), (14, 32020), (15, 32035), (17, 32044), (28, 32128),

Gene: HannahPhantana_60 Start: 32423, Stop: 32653, Start Num: 10

Candidate Starts for HannahPhantana_60:

(3, 32258), (7, 32333), (Start: 10 @32423 has 19 MA's), (13, 32456), (17, 32480), (22, 32501), (25, 32546), (26, 32555), (29, 32573), (33, 32609),

Gene: Jamun_49 Start: 33216, Stop: 33458, Start Num: 10

Candidate Starts for Jamun_49:

(4, 33069), (5, 33084), (Start: 10 @33216 has 19 MA's), (11, 33255), (14, 33264), (17, 33288), (27, 33369),

Gene: Juno112_53 Start: 32905, Stop: 33150, Start Num: 8

Candidate Starts for Juno112_53:

(Start: 8 @32905 has 4 MA's), (9, 32914), (12, 32950), (13, 32953), (15, 32971), (16, 32977), (27, 33064), (31, 33085),

Gene: KHumphrey_52 Start: 32793, Stop: 33038, Start Num: 8

Candidate Starts for KHumphrey_52:

(Start: 8 @32793 has 4 MA's), (9, 32802), (12, 32838), (13, 32841), (15, 32859), (16, 32865), (27, 32952), (31, 32973),

Gene: Kepler_53 Start: 32544, Stop: 32774, Start Num: 10

Candidate Starts for Kepler_53:

(3, 32379), (7, 32454), (Start: 10 @32544 has 19 MA's), (13, 32577), (17, 32601), (22, 32622), (25, 32667), (26, 32676), (29, 32694), (33, 32730),

Gene: Kuleana_53 Start: 32118, Stop: 32369, Start Num: 10

Candidate Starts for Kuleana_53:

(1, 31848), (6, 32004), (7, 32028), (Start: 10 @32118 has 19 MA's), (12, 32163), (13, 32166), (16, 32190), (21, 32196), (22, 32214), (23, 32217), (26, 32268), (27, 32280), (28, 32283), (29, 32286),

Gene: Leona_52 Start: 32984, Stop: 33229, Start Num: 8

Candidate Starts for Leona_52:

(Start: 8 @32984 has 4 MA's), (9, 32993), (12, 33029), (13, 33032), (15, 33050), (27, 33143), (31, 33164),

Gene: Lunar_53 Start: 32459, Stop: 32686, Start Num: 10

Candidate Starts for Lunar_53:

(3, 32294), (7, 32369), (Start: 10 @32459 has 19 MA's), (13, 32489), (17, 32513), (22, 32534), (25, 32579), (26, 32588), (29, 32606), (33, 32642),

Gene: Melons_53 Start: 32273, Stop: 32500, Start Num: 10

Candidate Starts for Melons_53:

(3, 32108), (7, 32183), (Start: 10 @32273 has 19 MA's), (13, 32303), (17, 32327), (22, 32348), (25, 32393), (29, 32420), (33, 32456),

Gene: Orcanus_51 Start: 33804, Stop: 34046, Start Num: 10

Candidate Starts for Orcanus_51:

(Start: 10 @33804 has 19 MA's), (11, 33843), (15, 33867), (17, 33876), (24, 33912),

Gene: PhluffyCoco_53 Start: 33048, Stop: 33248, Start Num: 12

Candidate Starts for PhluffyCoco_53:

(Start: 8 @33003 has 4 MA's), (9, 33012), (12, 33048), (13, 33051), (15, 33069), (16, 33075), (27, 33162), (30, 33177), (31, 33183),

Gene: Polka_52 Start: 32277, Stop: 32507, Start Num: 10

Candidate Starts for Polka_52:

(3, 32112), (7, 32187), (Start: 10 @32277 has 19 MA's), (13, 32310), (17, 32334), (22, 32355), (25, 32400), (26, 32409), (29, 32427), (33, 32463),

Gene: RedFox_53 Start: 33002, Stop: 33247, Start Num: 8

Candidate Starts for RedFox_53:

(Start: 8 @33002 has 4 MA's), (9, 33011), (12, 33047), (13, 33050), (15, 33068), (16, 33074), (27, 33161), (31, 33182),

Gene: Renna12_52 Start: 32855, Stop: 33100, Start Num: 8

Candidate Starts for Renna12_52:

(Start: 8 @32855 has 4 MA's), (9, 32864), (12, 32900), (13, 32903), (15, 32921), (16, 32927), (27, 33014), (29, 33020), (31, 33035),

Gene: Ruchi_49 Start: 32699, Stop: 32941, Start Num: 10

Candidate Starts for Ruchi_49:

(Start: 10 @32699 has 19 MA's), (11, 32738), (14, 32747), (15, 32762), (17, 32771), (27, 32852),

Gene: TaylorSipht_51 Start: 33344, Stop: 33586, Start Num: 10

Candidate Starts for TaylorSipht_51:

(Start: 10 @33344 has 19 MA's), (11, 33383), (15, 33407), (17, 33416), (32, 33536),

Gene: Vulpecula_49 Start: 32359, Stop: 32601, Start Num: 10

Candidate Starts for Vulpecula_49:

(Start: 10 @32359 has 19 MA's), (11, 32398), (14, 32407), (15, 32422), (16, 32428), (17, 32431), (27, 32512),