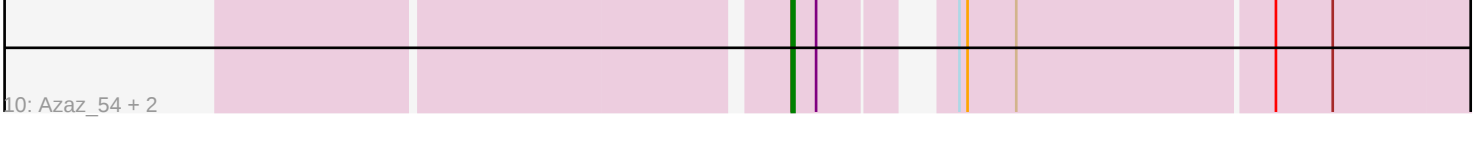
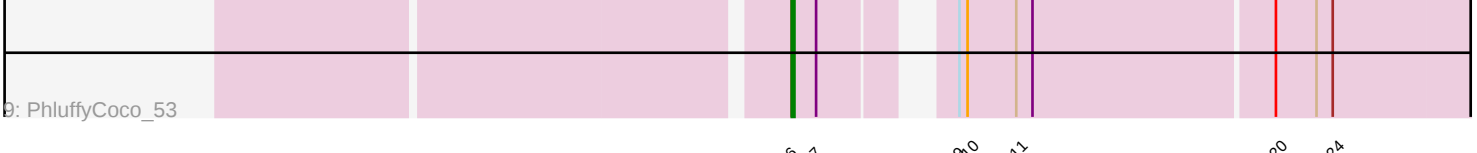
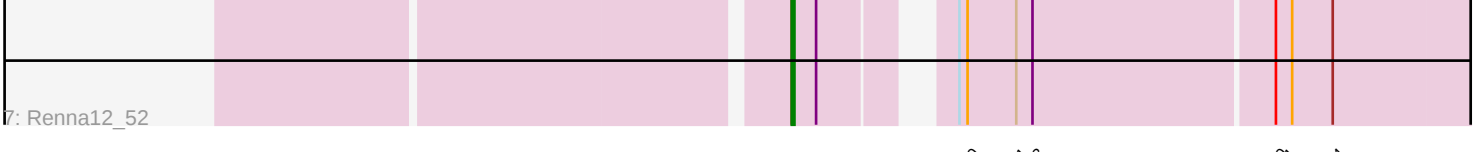
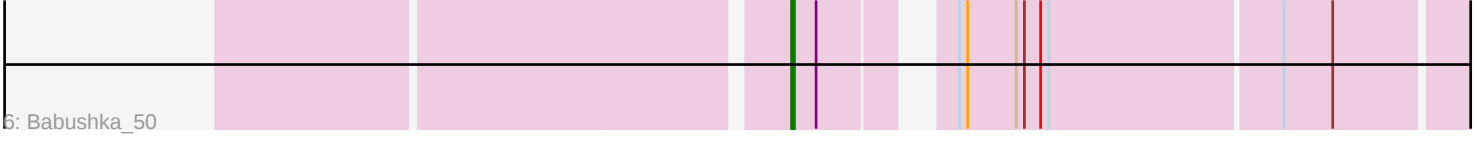
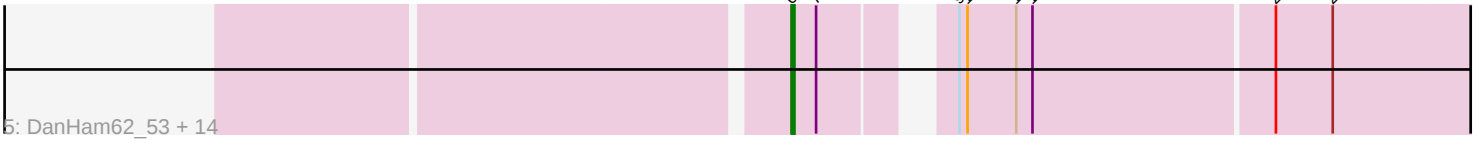
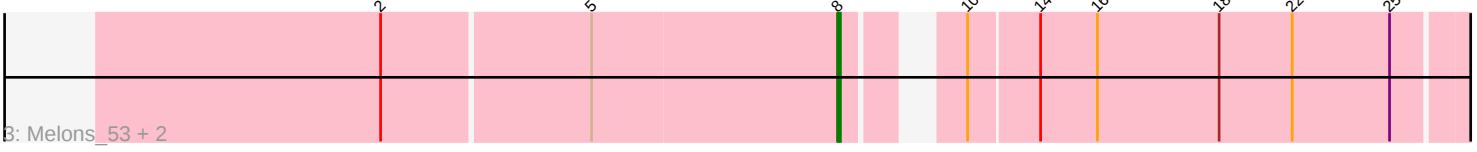


Pham 278216



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 278216 Report

This analysis was run 02/07/26 on database version 634.

Pham number 278216 has 40 members, 14 are drafts.

Phages represented in each track:

- Track 1 : PhirstandPhine_60, Kepler_53, OtsoOtso_53, Amelia_52, HannahPhantana_53, Bibble12_56, Cote_54, Bedetta_57, Polka_52, Lunar_53, Jerole_53, Colusalem_53
- Track 2 : Kuleana_53
- Track 3 : Melons_53, Pineda_55, Daob_54
- Track 4 : Coral_52
- Track 5 : DanHam62_53, AdoptaAdorbs_52, Amphitrite_53, Juno112_52, Fingolfin_53, KHumphrey_53, AmiCi24_52, RedFox_53, Atlantica_53, HamCheese_53, Glotell_54, Laphuphu24k_52, Camara_53, Rattail_53, Oppalora_52
- Track 6 : Babushka_50
- Track 7 : Renna12_52
- Track 8 : StuartMinion_44, AlexMinion_54
- Track 9 : PhluffyCoco_53
- Track 10 : Azaz_54, Leona_52, Andrew_54

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

The start number called the most often in the published annotations is 6, it was called in 13 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AdoptaAdorbs_52, AlexMinion_54, AmiCi24_52, Amphitrite_53, Andrew_54, Atlantica_53, Azaz_54, Babushka_50, Camara_53, DanHam62_53, Fingolfin_53, Glotell_54, HamCheese_53, Juno112_52, KHumphrey_53, Laphuphu24k_52, Leona_52, Oppalora_52, PhluffyCoco_53, Rattail_53, RedFox_53, Renna12_52, StuartMinion_44,

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

-

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

- Amelia_52, Bedetta_57, Bibble12_56, Colusalem_53, Coral_52, Cote_54, Daob_54, HannahPhantana_53, Jerole_53, Kepler_53, Kuleana_53, Lunar_53, Melons_53, OtsoOtso_53, PhirstandPhine_60, Pineda_55, Polka_52,

Summary by start number:

Start 6:

- Found in 23 of 40 (57.5%) of genes in pham
- Manual Annotations of this start: 13 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AdoptaAdorbs_52 (AS3), AlexMinion_54 (AS3), AmiCi24_52 (AS3), Amphitrite_53 (AS3), Andrew_54 (AS3), Atlantica_53 (AS3), Azaz_54 (AS3), Babushka_50 (AS3), Camara_53 (AS3), DanHam62_53 (AS3), Fingolfin_53 (AS3), Glotell_54 (AS3), HamCheese_53 (AS3), Juno112_52 (AS3), KHumphrey_53 (AS3), Laphuphu24k_52 (AS3), Leona_52 (AS3), Oppalora_52 (AS3), PhluffyCoco_53 (AS3), Rattail_53 (AS3), RedFox_53 (AS3), Renna12_52 (AS3), StuartMinion_44 (AS3),

Start 8:

- Found in 17 of 40 (42.5%) of genes in pham
- Manual Annotations of this start: 13 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amelia_52 (AS2), Bedetta_57 (AS2), Bibble12_56 (AS2), Colusalem_53 (AS2), Coral_52 (AS2), Cote_54 (AS2), Daob_54 (AS2), HannahPhantana_53 (AS2), Jerole_53 (AS2), Kepler_53 (AS2), Kuleana_53 (AS2), Lunar_53 (AS2), Melons_53 (AS2), OtsoOtso_53 (AS2), PhirstandPhine_60 (AS2), Pineda_55 (AS2), Polka_52 (AS2),

Summary by clusters:

There are 2 clusters represented in this pham: AS3, AS2,

Info for manual annotations of cluster AS2:

- Start number 8 was manually annotated 13 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 6 was manually annotated 13 times for cluster AS3.

Gene Information:

Gene: AdoptaAdorbs_52 Start: 32792, Stop: 33037, Start Num: 6

Candidate Starts for AdoptaAdorbs_52:

(Start: 6 @32792 has 13 MA's), (7, 32801), (9, 32837), (10, 32840), (11, 32858), (13, 32864), (20, 32951), (24, 32972),

Gene: AlexMinion_54 Start: 32816, Stop: 33064, Start Num: 6

Candidate Starts for AlexMinion_54:

(3, 32708), (Start: 6 @32816 has 13 MA's), (7, 32825), (9, 32861), (10, 32864), (11, 32882), (13, 32888), (20, 32975), (21, 32978), (24, 32996),

Gene: Amelia_52 Start: 32428, Stop: 32658, Start Num: 8

Candidate Starts for Amelia_52:

(2, 32263), (5, 32338), (Start: 8 @32428 has 13 MA's), (10, 32461), (14, 32485), (16, 32506), (18, 32551), (19, 32560), (22, 32578), (25, 32614),

Gene: AmiCi24_52 Start: 32901, Stop: 33146, Start Num: 6

Candidate Starts for AmiCi24_52:

(Start: 6 @32901 has 13 MA's), (7, 32910), (9, 32946), (10, 32949), (11, 32967), (13, 32973), (20, 33060), (24, 33081),

Gene: Amphitrite_53 Start: 32791, Stop: 33036, Start Num: 6

Candidate Starts for Amphitrite_53:

(Start: 6 @32791 has 13 MA's), (7, 32800), (9, 32836), (10, 32839), (11, 32857), (13, 32863), (20, 32950), (24, 32971),

Gene: Andrew_54 Start: 32798, Stop: 33043, Start Num: 6

Candidate Starts for Andrew_54:

(Start: 6 @32798 has 13 MA's), (7, 32807), (9, 32843), (10, 32846), (11, 32864), (20, 32957), (24, 32978),

Gene: Atlantica_53 Start: 32903, Stop: 33148, Start Num: 6

Candidate Starts for Atlantica_53:

(Start: 6 @32903 has 13 MA's), (7, 32912), (9, 32948), (10, 32951), (11, 32969), (13, 32975), (20, 33062), (24, 33083),

Gene: Azaz_54 Start: 32983, Stop: 33228, Start Num: 6

Candidate Starts for Azaz_54:

(Start: 6 @32983 has 13 MA's), (7, 32992), (9, 33028), (10, 33031), (11, 33049), (20, 33142), (24, 33163),

Gene: Babushka_50 Start: 32713, Stop: 32955, Start Num: 6

Candidate Starts for Babushka_50:

(Start: 6 @32713 has 13 MA's), (7, 32722), (9, 32758), (10, 32761), (11, 32779), (12, 32782), (14, 32788), (15, 32791), (21, 32875), (24, 32893),

Gene: Bedetta_57 Start: 32590, Stop: 32817, Start Num: 8

Candidate Starts for Bedetta_57:

(2, 32425), (5, 32500), (Start: 8 @32590 has 13 MA's), (10, 32620), (14, 32644), (16, 32665), (18, 32710), (19, 32719), (22, 32737), (25, 32773),

Gene: Bibble12_56 Start: 32423, Stop: 32653, Start Num: 8

Candidate Starts for Bibble12_56:

(2, 32258), (5, 32333), (Start: 8 @32423 has 13 MA's), (10, 32456), (14, 32480), (16, 32501), (18, 32546), (19, 32555), (22, 32573), (25, 32609),

Gene: Camara_53 Start: 32794, Stop: 33039, Start Num: 6

Candidate Starts for Camara_53:

(Start: 6 @32794 has 13 MA's), (7, 32803), (9, 32839), (10, 32842), (11, 32860), (13, 32866), (20, 32953), (24, 32974),

Gene: Colusalem_53 Start: 32405, Stop: 32635, Start Num: 8

Candidate Starts for Colusalem_53:

(2, 32240), (5, 32315), (Start: 8 @32405 has 13 MA's), (10, 32438), (14, 32462), (16, 32483), (18, 32528), (19, 32537), (22, 32555), (25, 32591),

Gene: Coral_52 Start: 32296, Stop: 32523, Start Num: 8

Candidate Starts for Coral_52:

(2, 32131), (5, 32206), (Start: 8 @32296 has 13 MA's), (10, 32326), (14, 32350), (16, 32371), (19, 32425), (22, 32443), (25, 32479),

Gene: Cote_54 Start: 32769, Stop: 32996, Start Num: 8

Candidate Starts for Cote_54:

(2, 32604), (5, 32679), (Start: 8 @32769 has 13 MA's), (10, 32799), (14, 32823), (16, 32844), (18, 32889), (19, 32898), (22, 32916), (25, 32952),

Gene: DanHam62_53 Start: 32902, Stop: 33147, Start Num: 6

Candidate Starts for DanHam62_53:

(Start: 6 @32902 has 13 MA's), (7, 32911), (9, 32947), (10, 32950), (11, 32968), (13, 32974), (20, 33061), (24, 33082),

Gene: Daob_54 Start: 32780, Stop: 33007, Start Num: 8

Candidate Starts for Daob_54:

(2, 32615), (5, 32690), (Start: 8 @32780 has 13 MA's), (10, 32810), (14, 32834), (16, 32855), (18, 32900), (22, 32927), (25, 32963),

Gene: Fingolfin_53 Start: 32905, Stop: 33150, Start Num: 6

Candidate Starts for Fingolfin_53:

(Start: 6 @32905 has 13 MA's), (7, 32914), (9, 32950), (10, 32953), (11, 32971), (13, 32977), (20, 33064), (24, 33085),

Gene: Glotell_54 Start: 32949, Stop: 33194, Start Num: 6

Candidate Starts for Glotell_54:

(Start: 6 @32949 has 13 MA's), (7, 32958), (9, 32994), (10, 32997), (11, 33015), (13, 33021), (20, 33108), (24, 33129),

Gene: HamCheese_53 Start: 32889, Stop: 33134, Start Num: 6

Candidate Starts for HamCheese_53:

(Start: 6 @32889 has 13 MA's), (7, 32898), (9, 32934), (10, 32937), (11, 32955), (13, 32961), (20, 33048), (24, 33069),

Gene: HannahPhantana_53 Start: 32423, Stop: 32653, Start Num: 8

Candidate Starts for HannahPhantana_53:

(2, 32258), (5, 32333), (Start: 8 @32423 has 13 MA's), (10, 32456), (14, 32480), (16, 32501), (18, 32546), (19, 32555), (22, 32573), (25, 32609),

Gene: Jerole_53 Start: 32547, Stop: 32777, Start Num: 8

Candidate Starts for Jerole_53:

(2, 32382), (5, 32457), (Start: 8 @32547 has 13 MA's), (10, 32580), (14, 32604), (16, 32625), (18, 32670), (19, 32679), (22, 32697), (25, 32733),

Gene: Juno112_52 Start: 32905, Stop: 33150, Start Num: 6

Candidate Starts for Juno112_52:

(Start: 6 @32905 has 13 MA's), (7, 32914), (9, 32950), (10, 32953), (11, 32971), (13, 32977), (20, 33064), (24, 33085),

Gene: KHumphrey_53 Start: 32793, Stop: 33038, Start Num: 6

Candidate Starts for KHumphrey_53:

(Start: 6 @32793 has 13 MA's), (7, 32802), (9, 32838), (10, 32841), (11, 32859), (13, 32865), (20, 32952), (24, 32973),

Gene: Kepler_53 Start: 32544, Stop: 32774, Start Num: 8

Candidate Starts for Kepler_53:

(2, 32379), (5, 32454), (Start: 8 @32544 has 13 MA's), (10, 32577), (14, 32601), (16, 32622), (18, 32667), (19, 32676), (22, 32694), (25, 32730),

Gene: Kuleana_53 Start: 32118, Stop: 32369, Start Num: 8

Candidate Starts for Kuleana_53:

(1, 31848), (4, 32004), (5, 32028), (Start: 8 @32118 has 13 MA's), (9, 32163), (10, 32166), (13, 32190), (15, 32196), (16, 32214), (17, 32217), (19, 32268), (20, 32280), (21, 32283), (22, 32286),

Gene: Laphuphu24k_52 Start: 32889, Stop: 33134, Start Num: 6

Candidate Starts for Laphuphu24k_52:

(Start: 6 @32889 has 13 MA's), (7, 32898), (9, 32934), (10, 32937), (11, 32955), (13, 32961), (20, 33048), (24, 33069),

Gene: Leona_52 Start: 32984, Stop: 33229, Start Num: 6

Candidate Starts for Leona_52:

(Start: 6 @32984 has 13 MA's), (7, 32993), (9, 33029), (10, 33032), (11, 33050), (20, 33143), (24, 33164),

Gene: Lunar_53 Start: 32459, Stop: 32686, Start Num: 8

Candidate Starts for Lunar_53:

(2, 32294), (5, 32369), (Start: 8 @32459 has 13 MA's), (10, 32489), (14, 32513), (16, 32534), (18, 32579), (19, 32588), (22, 32606), (25, 32642),

Gene: Melons_53 Start: 32273, Stop: 32500, Start Num: 8

Candidate Starts for Melons_53:

(2, 32108), (5, 32183), (Start: 8 @32273 has 13 MA's), (10, 32303), (14, 32327), (16, 32348), (18, 32393), (22, 32420), (25, 32456),

Gene: Oppalora_52 Start: 32903, Stop: 33148, Start Num: 6

Candidate Starts for Oppalora_52:

(Start: 6 @32903 has 13 MA's), (7, 32912), (9, 32948), (10, 32951), (11, 32969), (13, 32975), (20, 33062), (24, 33083),

Gene: OtsoOtso_53 Start: 32277, Stop: 32507, Start Num: 8

Candidate Starts for OtsoOtso_53:

(2, 32112), (5, 32187), (Start: 8 @32277 has 13 MA's), (10, 32310), (14, 32334), (16, 32355), (18, 32400), (19, 32409), (22, 32427), (25, 32463),

Gene: PhirstandPhine_60 Start: 32419, Stop: 32646, Start Num: 8

Candidate Starts for PhirstandPhine_60:

(2, 32254), (5, 32329), (Start: 8 @32419 has 13 MA's), (10, 32449), (14, 32473), (16, 32494), (18, 32539), (19, 32548), (22, 32566), (25, 32602),

Gene: PhluffyCoco_53 Start: 33003, Stop: 33248, Start Num: 6

Candidate Starts for PhluffyCoco_53:

(Start: 6 @33003 has 13 MA's), (7, 33012), (9, 33048), (10, 33051), (11, 33069), (13, 33075), (20, 33162), (23, 33177), (24, 33183),

Gene: Pineda_55 Start: 32588, Stop: 32815, Start Num: 8

Candidate Starts for Pineda_55:

(2, 32423), (5, 32498), (Start: 8 @32588 has 13 MA's), (10, 32618), (14, 32642), (16, 32663), (18, 32708), (22, 32735), (25, 32771),

Gene: Polka_52 Start: 32277, Stop: 32507, Start Num: 8

Candidate Starts for Polka_52:

(2, 32112), (5, 32187), (Start: 8 @32277 has 13 MA's), (10, 32310), (14, 32334), (16, 32355), (18, 32400), (19, 32409), (22, 32427), (25, 32463),

Gene: Rattail_53 Start: 33089, Stop: 33334, Start Num: 6

Candidate Starts for Rattail_53:

(Start: 6 @33089 has 13 MA's), (7, 33098), (9, 33134), (10, 33137), (11, 33155), (13, 33161), (20, 33248), (24, 33269),

Gene: RedFox_53 Start: 33002, Stop: 33247, Start Num: 6

Candidate Starts for RedFox_53:

(Start: 6 @33002 has 13 MA's), (7, 33011), (9, 33047), (10, 33050), (11, 33068), (13, 33074), (20, 33161), (24, 33182),

Gene: Renna12_52 Start: 32855, Stop: 33100, Start Num: 6

Candidate Starts for Renna12_52:

(Start: 6 @32855 has 13 MA's), (7, 32864), (9, 32900), (10, 32903), (11, 32921), (13, 32927), (20, 33014), (22, 33020), (24, 33035),

Gene: StuartMinion_44 Start: 29715, Stop: 29963, Start Num: 6

Candidate Starts for StuartMinion_44:

(3, 29607), (Start: 6 @29715 has 13 MA's), (7, 29724), (9, 29760), (10, 29763), (11, 29781), (13, 29787), (20, 29874), (21, 29877), (24, 29895),