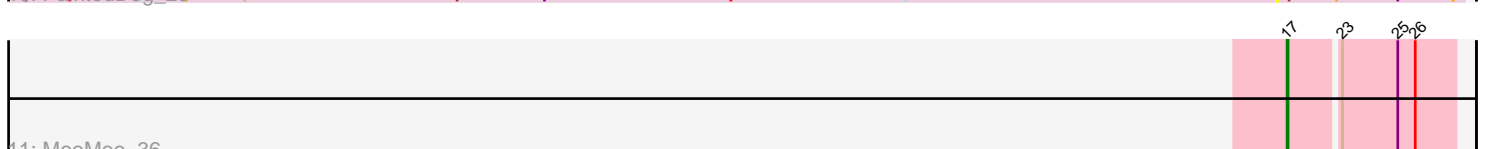
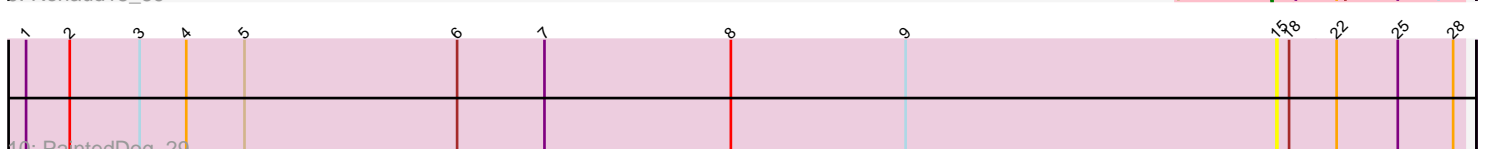
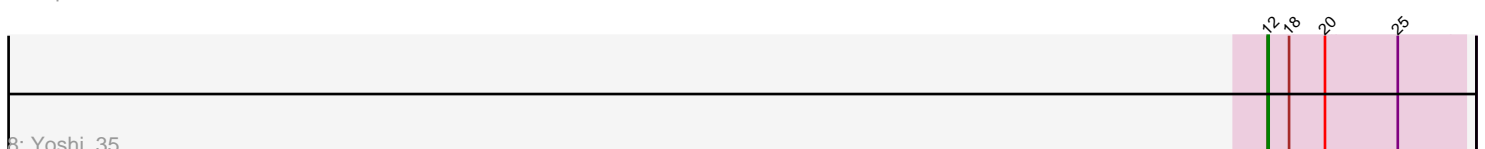
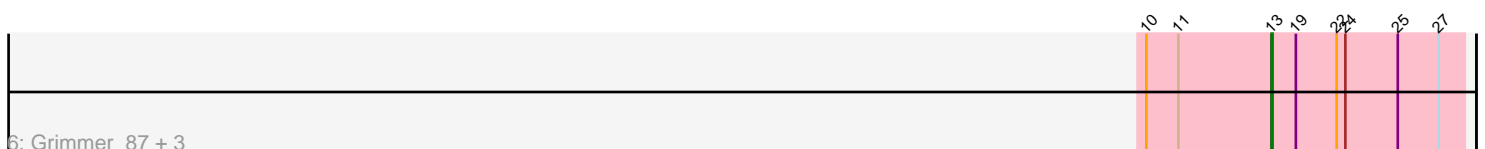
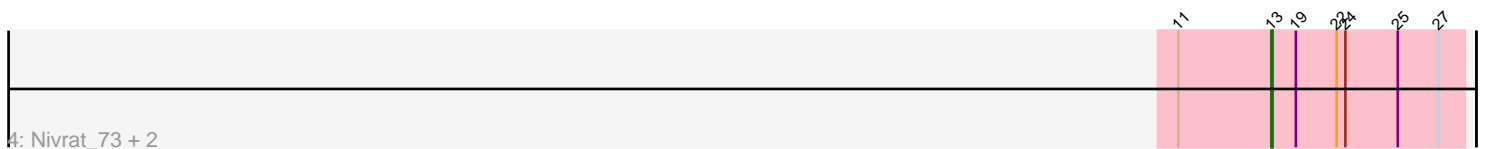
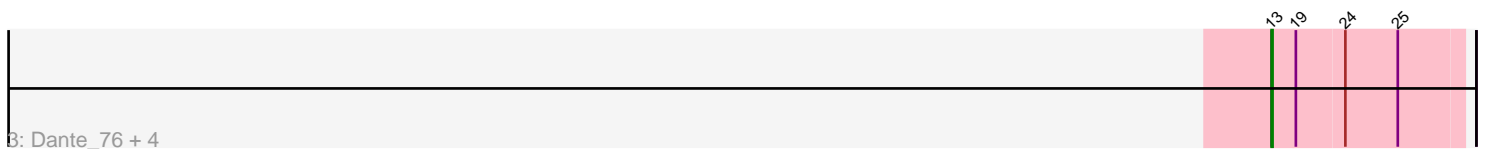
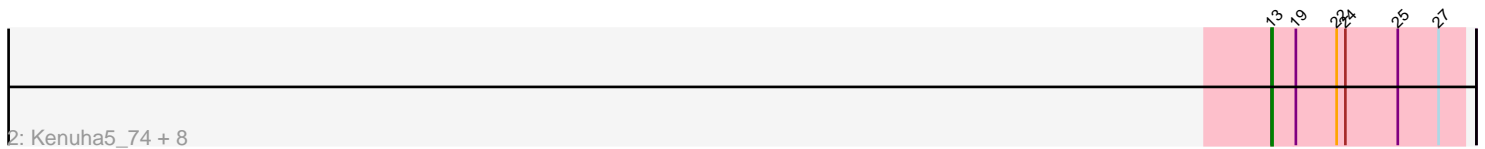
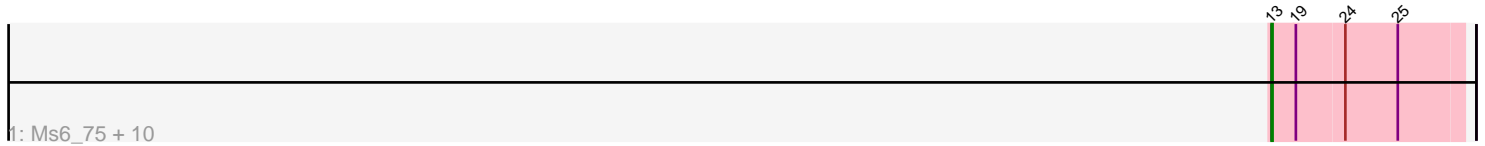


Pham 308776



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 308776 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308776 has 49 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Ms6_75, Jabbawokkie_86, Zapner_85, Starcevich_77, GigiOuiOui_71, Peridot_81, JalFarm20_85, Vivum_77, Veteran_69, Firehouse51_73, Blarby_85
- Track 2 : Kenuha5_74, Madiba_81, TChen_78, Okabe_72, LunaStella_76, Emma_80, Zerg_75, SuperGrey_77, Mantra_74
- Track 3 : Dante_76, Jant_78, GUmbie_71, Ardmore_62, Seagreen_78
- Track 4 : Nivrat_73, LilMoolah_75, Che8_81
- Track 5 : Taj_83, DotProduct_73, Mova_76, Fruitloop_68, Medindi_76, Phalconet_73, StAnnes_74, MilanaBonita_70, Akhila_71, Bobi_83, Bipolar_79, Wee_82
- Track 6 : Grimmer_87, Juniper1_75, Mahavrat_73, Crumble_74
- Track 7 : Zapner_53
- Track 8 : Yoshi_35
- Track 9 : Renaud18_86
- Track 10 : PaintedDog_29
- Track 11 : MooMoo_36

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

The start number called the most often in the published annotations is 13, it was called in 37 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akhila_71, Ardmore_62, Bipolar_79, Blarby_85, Bobi_83, Che8_81, Crumble_74, Dante_76, DotProduct_73, Emma_80, Firehouse51_73, Fruitloop_68, GUmbie_71, GigiOuiOui_71, Grimmer_87, Jabbawokkie_86, JalFarm20_85, Jant_78, Juniper1_75, Kenuha5_74, LilMoolah_75, LunaStella_76, Madiba_81, Mahavrat_73, Mantra_74, Medindi_76, MilanaBonita_70, Mova_76, Ms6_75, Nivrat_73, Okabe_72, Peridot_81, Phalconet_73, Renaud18_86, Seagreen_78, StAnnes_74, Starcevich_77, SuperGrey_77, TChen_78, Taj_83, Veteran_69, Vivum_77, Wee_82, Zapner_85, Zerg_75,

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

-

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

- MooMoo_36, PaintedDog_29, Yoshi_35, Zapner_53,

Summary by start number:

Start 12:

- Found in 1 of 49 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yoshi_35 (F2),

Start 13:

- Found in 45 of 49 (91.8%) of genes in pham
- Manual Annotations of this start: 37 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Akhila_71 (F1), Ardmore_62 (F1), Bipolar_79 (F1), Blarby_85 (F), Bobi_83 (F1), Che8_81 (F1), Crumble_74 (F1), Dante_76 (F1), DotProduct_73 (F1), Emma_80 (F1), Firehouse51_73 (F1), Fruitloop_68 (F1), GUmbie_71 (F1), GigiOuiOui_71 (F1), Grimmer_87 (F1), Jabbawokkie_86 (F2), JalFarm20_85 (F1), Jant_78 (F1), Juniper1_75 (F1), Kenuha5_74 (F1), LilMoolah_75 (F1), LunaStella_76 (F4), Madiba_81 (F1), Mahavrat_73 (F1), Mantra_74 (F1), Medindi_76 (F1), MilanaBonita_70 (F1), Mova_76 (F1), Ms6_75 (F1), Nivrat_73 (F1), Okabe_72 (F8), Peridot_81 (F1), Phalconet_73 (F1), Renaud18_86 (F4), Seagreen_78 (F1), StAnnes_74 (F1), Starcevich_77 (F1), SuperGrey_77 (F1), TChen_78 (F4), Taj_83 (F1), Veteran_69 (F1), Vivum_77 (F1), Wee_82 (F1), Zapner_85 (F2), Zerg_75 (F1),

Start 14:

- Found in 1 of 49 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zapner_53 (F2),

Start 15:

- Found in 1 of 49 (2.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PaintedDog_29 (I1),

Start 17:

- Found in 1 of 49 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MooMoo_36 (singleton),

Summary by clusters:

There are 7 clusters represented in this pham: F1, singleton, F4, F, I1, F2, F8,

Info for manual annotations of cluster F1:

- Start number 13 was manually annotated 32 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 12 was manually annotated 1 time for cluster F2.
- Start number 13 was manually annotated 2 times for cluster F2.
- Start number 14 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F4:

- Start number 13 was manually annotated 3 times for cluster F4.

Gene Information:

Gene: Akhila_71 Start: 46257, Stop: 46448, Start Num: 13

Candidate Starts for Akhila_71:

(Start: 13 @46257 has 37 MA's), (16, 46266), (19, 46281), (24, 46329), (25, 46383),

Gene: Ardmore_62 Start: 42463, Stop: 42654, Start Num: 13

Candidate Starts for Ardmore_62:

(Start: 13 @42463 has 37 MA's), (19, 42487), (24, 42535), (25, 42589),

Gene: Bipolar_79 Start: 49519, Stop: 49710, Start Num: 13

Candidate Starts for Bipolar_79:

(Start: 13 @49519 has 37 MA's), (16, 49528), (19, 49543), (24, 49591), (25, 49645),

Gene: Blarby_85 Start: 46610, Stop: 46801, Start Num: 13

Candidate Starts for Blarby_85:

(Start: 13 @46610 has 37 MA's), (19, 46634), (24, 46682), (25, 46736),

Gene: Bobi_83 Start: 50174, Stop: 50365, Start Num: 13

Candidate Starts for Bobi_83:

(Start: 13 @50174 has 37 MA's), (16, 50183), (19, 50198), (24, 50246), (25, 50300),

Gene: Che8_81 Start: 48246, Stop: 48443, Start Num: 13

Candidate Starts for Che8_81:

(11, 48150), (Start: 13 @48246 has 37 MA's), (19, 48270), (22, 48312), (24, 48321), (25, 48375), (27, 48417),

Gene: Crumble_74 Start: 44470, Stop: 44667, Start Num: 13

Candidate Starts for Crumble_74:

(10, 44341), (11, 44374), (Start: 13 @44470 has 37 MA's), (19, 44494), (22, 44536), (24, 44545), (25, 44599), (27, 44641),

Gene: Dante_76 Start: 49724, Stop: 49915, Start Num: 13

Candidate Starts for Dante_76:

(Start: 13 @49724 has 37 MA's), (19, 49748), (24, 49796), (25, 49850),

Gene: DotProduct_73 Start: 46568, Stop: 46759, Start Num: 13

Candidate Starts for DotProduct_73:

(Start: 13 @46568 has 37 MA's), (16, 46577), (19, 46592), (24, 46640), (25, 46694),

Gene: Emma_80 Start: 47223, Stop: 47420, Start Num: 13

Candidate Starts for Emma_80:

(Start: 13 @47223 has 37 MA's), (19, 47247), (22, 47289), (24, 47298), (25, 47352), (27, 47394),

Gene: Firehouse51_73 Start: 48817, Stop: 49008, Start Num: 13

Candidate Starts for Firehouse51_73:

(Start: 13 @48817 has 37 MA's), (19, 48841), (24, 48889), (25, 48943),

Gene: Fruitloop_68 Start: 45627, Stop: 45818, Start Num: 13

Candidate Starts for Fruitloop_68:

(Start: 13 @45627 has 37 MA's), (16, 45636), (19, 45651), (24, 45699), (25, 45753),

Gene: GUmbie_71 Start: 46988, Stop: 47179, Start Num: 13

Candidate Starts for GUmbie_71:

(Start: 13 @46988 has 37 MA's), (19, 47012), (24, 47060), (25, 47114),

Gene: GigiOuiOui_71 Start: 46659, Stop: 46850, Start Num: 13

Candidate Starts for GigiOuiOui_71:

(Start: 13 @46659 has 37 MA's), (19, 46683), (24, 46731), (25, 46785),

Gene: Grimmer_87 Start: 48036, Stop: 48233, Start Num: 13

Candidate Starts for Grimmer_87:

(10, 47907), (11, 47940), (Start: 13 @48036 has 37 MA's), (19, 48060), (22, 48102), (24, 48111), (25, 48165), (27, 48207),

Gene: Jabbawokkie_86 Start: 46530, Stop: 46721, Start Num: 13

Candidate Starts for Jabbawokkie_86:

(Start: 13 @46530 has 37 MA's), (19, 46554), (24, 46602), (25, 46656),

Gene: JalFarm20_85 Start: 48616, Stop: 48807, Start Num: 13

Candidate Starts for JalFarm20_85:

(Start: 13 @48616 has 37 MA's), (19, 48640), (24, 48688), (25, 48742),

Gene: Jant_78 Start: 46546, Stop: 46737, Start Num: 13

Candidate Starts for Jant_78:

(Start: 13 @46546 has 37 MA's), (19, 46570), (24, 46618), (25, 46672),

Gene: Juniper1_75 Start: 47397, Stop: 47594, Start Num: 13

Candidate Starts for Juniper1_75:

(10, 47268), (11, 47301), (Start: 13 @47397 has 37 MA's), (19, 47421), (22, 47463), (24, 47472), (25, 47526), (27, 47568),

Gene: Kenuha5_74 Start: 48377, Stop: 48574, Start Num: 13

Candidate Starts for Kenuha5_74:

(Start: 13 @48377 has 37 MA's), (19, 48401), (22, 48443), (24, 48452), (25, 48506), (27, 48548),

Gene: LilMoolah_75 Start: 47800, Stop: 47997, Start Num: 13

Candidate Starts for LilMoolah_75:

(11, 47704), (Start: 13 @47800 has 37 MA's), (19, 47824), (22, 47866), (24, 47875), (25, 47929), (27, 47971),

Gene: LunaStella_76 Start: 47441, Stop: 47638, Start Num: 13

Candidate Starts for LunaStella_76:

(Start: 13 @47441 has 37 MA's), (19, 47465), (22, 47507), (24, 47516), (25, 47570), (27, 47612),

Gene: Madiba_81 Start: 49313, Stop: 49510, Start Num: 13

Candidate Starts for Madiba_81:

(Start: 13 @49313 has 37 MA's), (19, 49337), (22, 49379), (24, 49388), (25, 49442), (27, 49484),

Gene: Mahavrat_73 Start: 45605, Stop: 45802, Start Num: 13

Candidate Starts for Mahavrat_73:

(10, 45476), (11, 45509), (Start: 13 @45605 has 37 MA's), (19, 45629), (22, 45671), (24, 45680), (25, 45734), (27, 45776),

Gene: Mantra_74 Start: 47434, Stop: 47631, Start Num: 13

Candidate Starts for Mantra_74:

(Start: 13 @47434 has 37 MA's), (19, 47458), (22, 47500), (24, 47509), (25, 47563), (27, 47605),

Gene: Medindi_76 Start: 47258, Stop: 47449, Start Num: 13

Candidate Starts for Medindi_76:

(Start: 13 @47258 has 37 MA's), (16, 47267), (19, 47282), (24, 47330), (25, 47384),

Gene: MilanaBonita_70 Start: 46257, Stop: 46448, Start Num: 13

Candidate Starts for MilanaBonita_70:

(Start: 13 @46257 has 37 MA's), (16, 46266), (19, 46281), (24, 46329), (25, 46383),

Gene: MooMoo_36 Start: 30109, Stop: 29948, Start Num: 17

Candidate Starts for MooMoo_36:

(Start: 17 @30109 has 1 MA's), (23, 30061), (25, 30004), (26, 29989),

Gene: Mova_76 Start: 46737, Stop: 46928, Start Num: 13

Candidate Starts for Mova_76:

(Start: 13 @46737 has 37 MA's), (16, 46746), (19, 46761), (24, 46809), (25, 46863),

Gene: Ms6_75 Start: 43820, Stop: 44011, Start Num: 13

Candidate Starts for Ms6_75:

(Start: 13 @43820 has 37 MA's), (19, 43844), (24, 43892), (25, 43946),

Gene: Nivrat_73 Start: 47673, Stop: 47870, Start Num: 13

Candidate Starts for Nivrat_73:

(11, 47577), (Start: 13 @47673 has 37 MA's), (19, 47697), (22, 47739), (24, 47748), (25, 47802), (27, 47844),

Gene: Okabe_72 Start: 44851, Stop: 45048, Start Num: 13

Candidate Starts for Okabe_72:

(Start: 13 @44851 has 37 MA's), (19, 44875), (22, 44917), (24, 44926), (25, 44980), (27, 45022),

Gene: PaintedDog_29 Start: 25646, Stop: 25834, Start Num: 15

Candidate Starts for PaintedDog_29:

(1, 24359), (2, 24404), (3, 24476), (4, 24524), (5, 24584), (6, 24803), (7, 24893), (8, 25085), (9, 25265), (15, 25646), (18, 25658), (22, 25703), (25, 25766), (28, 25823),

Gene: Peridot_81 Start: 48451, Stop: 48642, Start Num: 13

Candidate Starts for Peridot_81:

(Start: 13 @48451 has 37 MA's), (19, 48475), (24, 48523), (25, 48577),

Gene: Phalconet_73 Start: 46674, Stop: 46865, Start Num: 13

Candidate Starts for Phalconet_73:

(Start: 13 @46674 has 37 MA's), (16, 46683), (19, 46698), (24, 46746), (25, 46800),

Gene: Renaud18_86 Start: 48740, Stop: 48937, Start Num: 13

Candidate Starts for Renaud18_86:

(11, 48644), (Start: 13 @48740 has 37 MA's), (19, 48764), (22, 48806), (24, 48815), (25, 48869), (27, 48911),

Gene: Seagreen_78 Start: 48770, Stop: 48961, Start Num: 13

Candidate Starts for Seagreen_78:

(Start: 13 @48770 has 37 MA's), (19, 48794), (24, 48842), (25, 48896),

Gene: StAnnes_74 Start: 47992, Stop: 48183, Start Num: 13

Candidate Starts for StAnnes_74:

(Start: 13 @47992 has 37 MA's), (16, 48001), (19, 48016), (24, 48064), (25, 48118),

Gene: Starcevich_77 Start: 49017, Stop: 49208, Start Num: 13

Candidate Starts for Starcevich_77:

(Start: 13 @49017 has 37 MA's), (19, 49041), (24, 49089), (25, 49143),

Gene: SuperGrey_77 Start: 49860, Stop: 50057, Start Num: 13

Candidate Starts for SuperGrey_77:

(Start: 13 @49860 has 37 MA's), (19, 49884), (22, 49926), (24, 49935), (25, 49989), (27, 50031),

Gene: TChen_78 Start: 49392, Stop: 49589, Start Num: 13

Candidate Starts for TChen_78:

(Start: 13 @49392 has 37 MA's), (19, 49416), (22, 49458), (24, 49467), (25, 49521), (27, 49563),

Gene: Taj_83 Start: 49578, Stop: 49769, Start Num: 13

Candidate Starts for Taj_83:

(Start: 13 @49578 has 37 MA's), (16, 49587), (19, 49602), (24, 49650), (25, 49704),

Gene: Veteran_69 Start: 46834, Stop: 47025, Start Num: 13

Candidate Starts for Veteran_69:

(Start: 13 @46834 has 37 MA's), (19, 46858), (24, 46906), (25, 46960),

Gene: Vivum_77 Start: 49703, Stop: 49894, Start Num: 13

Candidate Starts for Vivum_77:

(Start: 13 @49703 has 37 MA's), (19, 49727), (24, 49775), (25, 49829),

Gene: Wee_82 Start: 49654, Stop: 49845, Start Num: 13

Candidate Starts for Wee_82:

(Start: 13 @49654 has 37 MA's), (16, 49663), (19, 49678), (24, 49726), (25, 49780),

Gene: Yoshi_35 Start: 25258, Stop: 25455, Start Num: 12

Candidate Starts for Yoshi_35:

(Start: 12 @25258 has 1 MA's), (18, 25279), (20, 25315), (25, 25387),

Gene: Zapner_53 Start: 32641, Stop: 32441, Start Num: 14

Candidate Starts for Zapner_53:

(Start: 14 @32641 has 1 MA's), (21, 32587), (25, 32521),

Gene: Zapner_85 Start: 46624, Stop: 46815, Start Num: 13

Candidate Starts for Zapner_85:

(Start: 13 @46624 has 37 MA's), (19, 46648), (24, 46696), (25, 46750),

Gene: Zerg_75 Start: 47685, Stop: 47882, Start Num: 13

Candidate Starts for Zerg_75:

(Start: 13 @47685 has 37 MA's), (19, 47709), (22, 47751), (24, 47760), (25, 47814), (27, 47856),