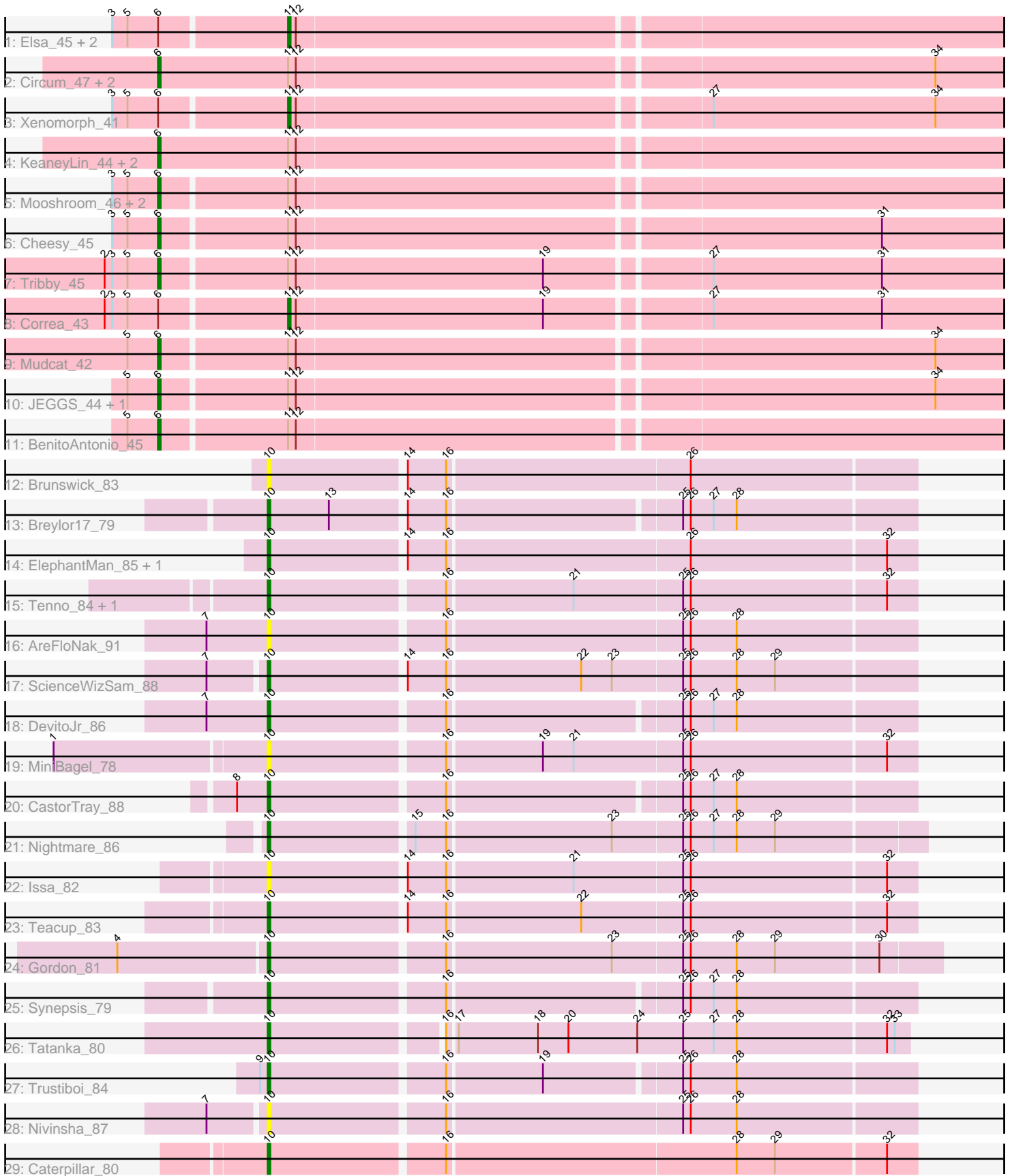


Pham 158008



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 158008 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158008 has 40 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Elsa_45, Arcadia_45, Nason_45
- Track 2 : Circum_47, NapoleonB_45, Dynamite_45
- Track 3 : Xenomorph_41
- Track 4 : KeaneyLin_44, GoCrazy_44, Hankly_44
- Track 5 : Mooshroom_46, Kardesai_46, Benllo_44
- Track 6 : Cheesy_45
- Track 7 : Tribby_45
- Track 8 : Correa_43
- Track 9 : Mudcat_42
- Track 10 : JEGGS_44, Heisenberger_44
- Track 11 : BenitoAntonio_45
- Track 12 : Brunswick_83
- Track 13 : Breylor17_79
- Track 14 : ElephantMan_85, Niktson_85
- Track 15 : Tenno_84, CapnMurica_80
- Track 16 : AreFloNak_91
- Track 17 : ScienceWizSam_88
- Track 18 : DevitoJr_86
- Track 19 : MiniBagel_78
- Track 20 : CastorTray_88
- Track 21 : Nightmare_86
- Track 22 : Issa_82
- Track 23 : Teacup_83
- Track 24 : Gordon_81
- Track 25 : Synopsis_79
- Track 26 : Tatanka_80
- Track 27 : Trustiboi_84
- Track 28 : Nivinsha_87
- Track 29 : Caterpillar_80

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 15 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AreFloNak_91, Breylor17_79, Brunswick_83, CapnMurica_80, CastorTray_88, Caterpillar_80, DevitoJr_86, ElephantMan_85, Gordon_81, Issa_82, MiniBagel_78, Nightmare_86, Niktson_85, Nivinsha_87, ScienceWizSam_88, Synopsis_79, Tatanka_80, Teacup_83, Tenno_84, Trustiboi_84,

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

-

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

- Arcadia_45, BenitoAntonio_45, Benllo_44, Cheesy_45, Circum_47, Correa_43, Dynamite_45, Elsa_45, GoCrazy_44, Hankly_44, Heisenberger_44, JEGGS_44, Kardesai_46, KeaneyLin_44, Mooshroom_46, Mudcat_42, NapoleonB_45, Nason_45, Tribby_45, Xenomorph_41,

Summary by start number:

Start 6:

- Found in 20 of 40 (50.0%) of genes in pham
- Manual Annotations of this start: 13 of 33
- Called 75.0% of time when present
- Phage (with cluster) where this start called: BenitoAntonio_45 (AM), Benllo_44 (AM), Cheesy_45 (AM), Circum_47 (AM), Dynamite_45 (AM), GoCrazy_44 (AM), Hankly_44 (AM), Heisenberger_44 (AM), JEGGS_44 (AM), Kardesai_46 (AM), KeaneyLin_44 (AM), Mooshroom_46 (AM), Mudcat_42 (AM), NapoleonB_45 (AM), Tribby_45 (AM),

Start 10:

- Found in 20 of 40 (50.0%) of genes in pham
- Manual Annotations of this start: 15 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AreFloNak_91 (AU1), Breylor17_79 (AU1), Brunswick_83 (AU1), CapnMurica_80 (AU1), CastorTray_88 (AU1), Caterpillar_80 (AU4), DevitoJr_86 (AU1), ElephantMan_85 (AU1), Gordon_81 (AU1), Issa_82 (AU1), MiniBagel_78 (AU1), Nightmare_86 (AU1), Niktson_85 (AU1), Nivinsha_87 (AU1), ScienceWizSam_88 (AU1), Synopsis_79 (AU1), Tatanka_80 (AU1), Teacup_83 (AU1), Tenno_84 (AU1), Trustiboi_84 (AU1),

Start 11:

- Found in 20 of 40 (50.0%) of genes in pham
- Manual Annotations of this start: 5 of 33
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Arcadia_45 (AM), Correa_43 (AM), Elsa_45 (AM), Nason_45 (AM), Xenomorph_41 (AM),

Summary by clusters:

There are 3 clusters represented in this pham: AU1, AM, AU4,

Info for manual annotations of cluster AM:

- Start number 6 was manually annotated 13 times for cluster AM.
- Start number 11 was manually annotated 5 times for cluster AM.

Info for manual annotations of cluster AU1:

•Start number 10 was manually annotated 14 times for cluster AU1.

Info for manual annotations of cluster AU4:

•Start number 10 was manually annotated 1 time for cluster AU4.

Gene Information:

Gene: Arcadia_45 Start: 30887, Stop: 31159, Start Num: 11

Candidate Starts for Arcadia_45:

(3, 30821), (5, 30827), (Start: 6 @30839 has 13 MA's), (Start: 11 @30887 has 5 MA's), (12, 30890),

Gene: AreFloNak_91 Start: 53020, Stop: 53265, Start Num: 10

Candidate Starts for AreFloNak_91:

(7, 52996), (Start: 10 @53020 has 15 MA's), (16, 53086), (25, 53176), (26, 53179), (28, 53197),

Gene: BenitoAntonio_45 Start: 30416, Stop: 30736, Start Num: 6

Candidate Starts for BenitoAntonio_45:

(5, 30404), (Start: 6 @30416 has 13 MA's), (Start: 11 @30464 has 5 MA's), (12, 30467),

Gene: Benllo_44 Start: 31100, Stop: 31420, Start Num: 6

Candidate Starts for Benllo_44:

(3, 31082), (5, 31088), (Start: 6 @31100 has 13 MA's), (Start: 11 @31148 has 5 MA's), (12, 31151),

Gene: Breylor17_79 Start: 52786, Stop: 53028, Start Num: 10

Candidate Starts for Breylor17_79:

(Start: 10 @52786 has 15 MA's), (13, 52810), (14, 52837), (16, 52852), (25, 52939), (26, 52942), (27, 52951), (28, 52960),

Gene: Brunswick_83 Start: 52853, Stop: 53098, Start Num: 10

Candidate Starts for Brunswick_83:

(Start: 10 @52853 has 15 MA's), (14, 52904), (16, 52919), (26, 53012),

Gene: CapnMurica_80 Start: 52975, Stop: 53220, Start Num: 10

Candidate Starts for CapnMurica_80:

(Start: 10 @52975 has 15 MA's), (16, 53041), (21, 53089), (25, 53131), (26, 53134), (32, 53209),

Gene: CastorTray_88 Start: 53338, Stop: 53580, Start Num: 10

Candidate Starts for CastorTray_88:

(8, 53326), (Start: 10 @53338 has 15 MA's), (16, 53404), (25, 53491), (26, 53494), (27, 53503), (28, 53512),

Gene: Caterpillar_80 Start: 51328, Stop: 51573, Start Num: 10

Candidate Starts for Caterpillar_80:

(Start: 10 @51328 has 15 MA's), (16, 51394), (28, 51505), (29, 51520), (32, 51562),

Gene: Cheesy_45 Start: 30537, Stop: 30857, Start Num: 6

Candidate Starts for Cheesy_45:

(3, 30519), (5, 30525), (Start: 6 @30537 has 13 MA's), (Start: 11 @30585 has 5 MA's), (12, 30588), (31, 30810),

Gene: Circum_47 Start: 31247, Stop: 31570, Start Num: 6

Candidate Starts for Circum_47:

(Start: 6 @31247 has 13 MA's), (Start: 11 @31298 has 5 MA's), (12, 31301), (34, 31544),

Gene: Correa_43 Start: 29770, Stop: 30042, Start Num: 11

Candidate Starts for Correa_43:

(2, 29701), (3, 29704), (5, 29710), (Start: 6 @29722 has 13 MA's), (Start: 11 @29770 has 5 MA's), (12, 29773), (19, 29869), (27, 29929), (31, 29995),

Gene: DevitoJr_86 Start: 52897, Stop: 53139, Start Num: 10

Candidate Starts for DevitoJr_86:

(7, 52873), (Start: 10 @52897 has 15 MA's), (16, 52963), (25, 53050), (26, 53053), (27, 53062), (28, 53071),

Gene: Dynamite_45 Start: 30799, Stop: 31122, Start Num: 6

Candidate Starts for Dynamite_45:

(Start: 6 @30799 has 13 MA's), (Start: 11 @30850 has 5 MA's), (12, 30853), (34, 31096),

Gene: ElephantMan_85 Start: 53383, Stop: 53628, Start Num: 10

Candidate Starts for ElephantMan_85:

(Start: 10 @53383 has 15 MA's), (14, 53434), (16, 53449), (26, 53542), (32, 53617),

Gene: Elsa_45 Start: 30887, Stop: 31159, Start Num: 11

Candidate Starts for Elsa_45:

(3, 30821), (5, 30827), (Start: 6 @30839 has 13 MA's), (Start: 11 @30887 has 5 MA's), (12, 30890),

Gene: GoCrazy_44 Start: 30725, Stop: 31048, Start Num: 6

Candidate Starts for GoCrazy_44:

(Start: 6 @30725 has 13 MA's), (Start: 11 @30776 has 5 MA's), (12, 30779),

Gene: Gordon_81 Start: 53106, Stop: 53360, Start Num: 10

Candidate Starts for Gordon_81:

(4, 53049), (Start: 10 @53106 has 15 MA's), (16, 53172), (23, 53235), (25, 53262), (26, 53265), (28, 53283), (29, 53298), (30, 53337),

Gene: Hankly_44 Start: 30026, Stop: 30349, Start Num: 6

Candidate Starts for Hankly_44:

(Start: 6 @30026 has 13 MA's), (Start: 11 @30077 has 5 MA's), (12, 30080),

Gene: Heisenberger_44 Start: 30280, Stop: 30600, Start Num: 6

Candidate Starts for Heisenberger_44:

(5, 30268), (Start: 6 @30280 has 13 MA's), (Start: 11 @30328 has 5 MA's), (12, 30331), (34, 30574),

Gene: Issa_82 Start: 52041, Stop: 52286, Start Num: 10

Candidate Starts for Issa_82:

(Start: 10 @52041 has 15 MA's), (14, 52092), (16, 52107), (21, 52155), (25, 52197), (26, 52200), (32, 52275),

Gene: JEGGS_44 Start: 30334, Stop: 30654, Start Num: 6

Candidate Starts for JEGGS_44:

(5, 30322), (Start: 6 @30334 has 13 MA's), (Start: 11 @30382 has 5 MA's), (12, 30385), (34, 30628),

Gene: Kardesai_46 Start: 31000, Stop: 31320, Start Num: 6
Candidate Starts for Kardesai_46:
(3, 30982), (5, 30988), (Start: 6 @31000 has 13 MA's), (Start: 11 @31048 has 5 MA's), (12, 31051),

Gene: KeaneyLin_44 Start: 30725, Stop: 31048, Start Num: 6
Candidate Starts for KeaneyLin_44:
(Start: 6 @30725 has 13 MA's), (Start: 11 @30776 has 5 MA's), (12, 30779),

Gene: MiniBagel_78 Start: 52801, Stop: 53046, Start Num: 10
Candidate Starts for MiniBagel_78:
(1, 52720), (Start: 10 @52801 has 15 MA's), (16, 52867), (19, 52903), (21, 52915), (25, 52957), (26, 52960), (32, 53035),

Gene: Mooshroom_46 Start: 31000, Stop: 31320, Start Num: 6
Candidate Starts for Mooshroom_46:
(3, 30982), (5, 30988), (Start: 6 @31000 has 13 MA's), (Start: 11 @31048 has 5 MA's), (12, 31051),

Gene: Mudcat_42 Start: 31693, Stop: 32013, Start Num: 6
Candidate Starts for Mudcat_42:
(5, 31681), (Start: 6 @31693 has 13 MA's), (Start: 11 @31741 has 5 MA's), (12, 31744), (34, 31987),

Gene: NapoleonB_45 Start: 30799, Stop: 31122, Start Num: 6
Candidate Starts for NapoleonB_45:
(Start: 6 @30799 has 13 MA's), (Start: 11 @30850 has 5 MA's), (12, 30853), (34, 31096),

Gene: Nason_45 Start: 30887, Stop: 31159, Start Num: 11
Candidate Starts for Nason_45:
(3, 30821), (5, 30827), (Start: 6 @30839 has 13 MA's), (Start: 11 @30887 has 5 MA's), (12, 30890),

Gene: Nightmare_86 Start: 53676, Stop: 53924, Start Num: 10
Candidate Starts for Nightmare_86:
(Start: 10 @53676 has 15 MA's), (15, 53730), (16, 53742), (23, 53805), (25, 53832), (26, 53835), (27, 53844), (28, 53853), (29, 53868),

Gene: Niktson_85 Start: 53383, Stop: 53628, Start Num: 10
Candidate Starts for Niktson_85:
(Start: 10 @53383 has 15 MA's), (14, 53434), (16, 53449), (26, 53542), (32, 53617),

Gene: Nivinsha_87 Start: 53024, Stop: 53269, Start Num: 10
Candidate Starts for Nivinsha_87:
(7, 53003), (Start: 10 @53024 has 15 MA's), (16, 53090), (25, 53180), (26, 53183), (28, 53201),

Gene: ScienceWizSam_88 Start: 53067, Stop: 53312, Start Num: 10
Candidate Starts for ScienceWizSam_88:
(7, 53046), (Start: 10 @53067 has 15 MA's), (14, 53118), (16, 53133), (22, 53184), (23, 53196), (25, 53223), (26, 53226), (28, 53244), (29, 53259),

Gene: Synopsis_79 Start: 52500, Stop: 52742, Start Num: 10
Candidate Starts for Synopsis_79:
(Start: 10 @52500 has 15 MA's), (16, 52566), (25, 52653), (26, 52656), (27, 52665), (28, 52674),

Gene: Tatanka_80 Start: 52808, Stop: 53047, Start Num: 10
Candidate Starts for Tatanka_80:

(Start: 10 @52808 has 15 MA's), (16, 52871), (17, 52874), (18, 52904), (20, 52916), (24, 52943), (25, 52961), (27, 52973), (28, 52982), (32, 53039), (33, 53042),

Gene: Teacup_83 Start: 53119, Stop: 53364, Start Num: 10

Candidate Starts for Teacup_83:

(Start: 10 @53119 has 15 MA's), (14, 53170), (16, 53185), (22, 53236), (25, 53275), (26, 53278), (32, 53353),

Gene: Tenno_84 Start: 53009, Stop: 53254, Start Num: 10

Candidate Starts for Tenno_84:

(Start: 10 @53009 has 15 MA's), (16, 53075), (21, 53123), (25, 53165), (26, 53168), (32, 53243),

Gene: Tribby_45 Start: 30555, Stop: 30875, Start Num: 6

Candidate Starts for Tribby_45:

(2, 30534), (3, 30537), (5, 30543), (Start: 6 @30555 has 13 MA's), (Start: 11 @30603 has 5 MA's), (12, 30606), (19, 30702), (27, 30762), (31, 30828),

Gene: Trustiboi_84 Start: 53082, Stop: 53324, Start Num: 10

Candidate Starts for Trustiboi_84:

(9, 53079), (Start: 10 @53082 has 15 MA's), (16, 53148), (19, 53184), (25, 53235), (26, 53238), (28, 53256),

Gene: Xenomorph_41 Start: 30314, Stop: 30586, Start Num: 11

Candidate Starts for Xenomorph_41:

(3, 30248), (5, 30254), (Start: 6 @30266 has 13 MA's), (Start: 11 @30314 has 5 MA's), (12, 30317), (27, 30473), (34, 30560),