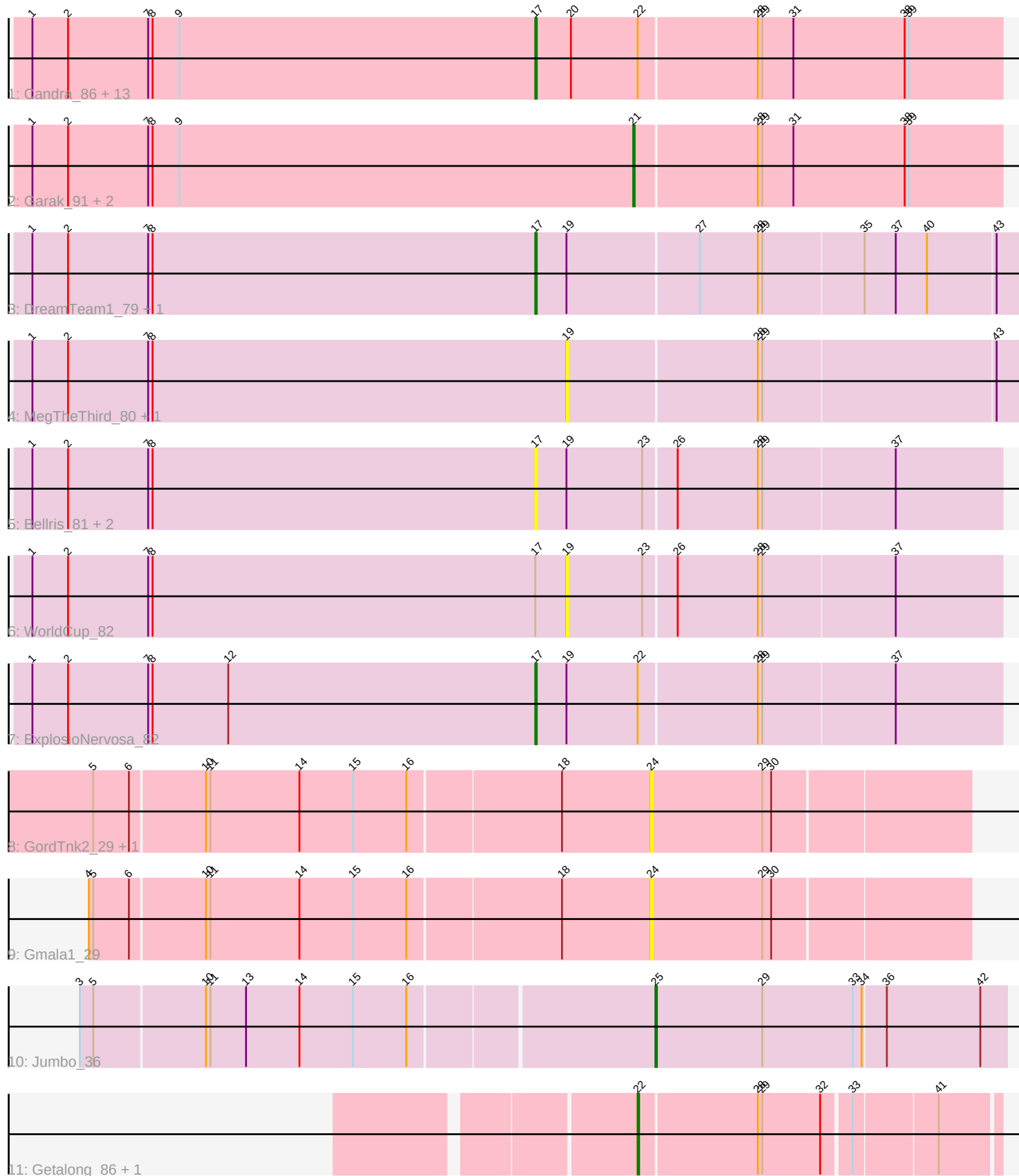


Pham 243476



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 243476 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 243476 has 32 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Candra_86, DaVinci_86, Pmask_87, McFly_88, SuperCallie99_84, Neeharika16_87, GreedyLawyer_81, Newrala_87, SuperAwesome_88, VohminGhazi_88, Zulu_91, Kipper29_88, EricB_86, Priamo_89
- Track 2 : Garak_91, Indra_93, BennyP_89
- Track 3 : DreamTeam1_79, Klodlith_80
- Track 4 : MegTheThird_80, Celestialunch_79
- Track 5 : Bellris_81, Minispark_81, CogOmlette_81
- Track 6 : WorldCup_82
- Track 7 : ExplosioNervosa_82
- Track 8 : GordTnk2_29, GordDuk1_29
- Track 9 : Gmala1_29
- Track 10 : Jumbo_36
- Track 11 : Getalong_86, Whitney_81

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

The start number called the most often in the published annotations is 17, it was called in 15 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bellris_81, Candra_86, CogOmlette_81, DaVinci_86, DreamTeam1_79, EricB_86, ExplosioNervosa_82, GreedyLawyer_81, Kipper29_88, Klodlith_80, McFly_88, Minispark_81, Neeharika16_87, Newrala_87, Pmask_87, Priamo_89, SuperAwesome_88, SuperCallie99_84, VohminGhazi_88, Zulu_91,

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

- WorldCup_82,

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

- BennyP_89, Celestiallunch_79, Garak_91, Getalong_86, Gmala1_29, GordDuk1_29, GordTnk2_29, Indra_93, Jumbo_36, MegTheThird_80, Whitney_81,

Summary by start number:

Start 17:

- Found in 21 of 32 (65.6%) of genes in pham
- Manual Annotations of this start: 15 of 19
- Called 95.2% of time when present
- Phage (with cluster) where this start called: Bellris_81 (A9), Candra_86 (A6), CogOmlette_81 (A9), DaVinci_86 (A6), DreamTeam1_79 (A9), EricB_86 (A6), ExplosioNervosa_82 (A9), GreedyLawyer_81 (A6), Kipper29_88 (A6), Klodlith_80 (A9), McFly_88 (A6), Minispark_81 (A9), Neeharika16_87 (A6), Newrala_87 (A6), Pmask_87 (A6), Priamo_89 (A6), SuperAwesome_88 (A6), SuperCallie99_84 (A6), VohminGhazi_88 (A6), Zulu_91 (A6),

Start 19:

- Found in 9 of 32 (28.1%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Celestiallunch_79 (A9), MegTheThird_80 (A9), WorldCup_82 (A9),

Start 21:

- Found in 3 of 32 (9.4%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BennyP_89 (A6), Garak_91 (A6), Indra_93 (A6),

Start 22:

- Found in 17 of 32 (53.1%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 11.8% of time when present
- Phage (with cluster) where this start called: Getalong_86 (DN1), Whitney_81 (DN1),

Start 24:

- Found in 3 of 32 (9.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gmala1_29 (DF1), GordDuk1_29 (DF1), GordTnk2_29 (DF1),

Start 25:

- Found in 1 of 32 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jumbo_36 (DF3),

Summary by clusters:

There are 5 clusters represented in this pham: A9, DF1, DN1, DF3, A6,

Info for manual annotations of cluster A6:

- Start number 17 was manually annotated 13 times for cluster A6.
- Start number 21 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster A9:

- Start number 17 was manually annotated 2 times for cluster A9.

Info for manual annotations of cluster DF3:

- Start number 25 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DN1:

- Start number 22 was manually annotated 2 times for cluster DN1.

Gene Information:

Gene: Bellris_81 Start: 46108, Stop: 45800, Start Num: 17

Candidate Starts for Bellris_81:

(1, 46447), (2, 46423), (7, 46369), (8, 46366), (Start: 17 @46108 has 15 MA's), (19, 46087), (23, 46036), (26, 46015), (28, 45961), (29, 45958), (37, 45871),

Gene: BennyP_89 Start: 46977, Stop: 46732, Start Num: 21

Candidate Starts for BennyP_89:

(1, 47382), (2, 47358), (7, 47304), (8, 47301), (9, 47283), (Start: 21 @46977 has 1 MA's), (28, 46896), (29, 46893), (31, 46872), (38, 46797), (39, 46794),

Gene: Candra_86 Start: 46902, Stop: 46591, Start Num: 17

Candidate Starts for Candra_86:

(1, 47241), (2, 47217), (7, 47163), (8, 47160), (9, 47142), (Start: 17 @46902 has 15 MA's), (20, 46878), (Start: 22 @46833 has 2 MA's), (28, 46755), (29, 46752), (31, 46731), (38, 46656), (39, 46653),

Gene: Celestiallunch_79 Start: 45864, Stop: 45568, Start Num: 19

Candidate Starts for Celestiallunch_79:

(1, 46224), (2, 46200), (7, 46146), (8, 46143), (19, 45864), (28, 45738), (29, 45735), (43, 45582),

Gene: CogOmlette_81 Start: 46105, Stop: 45797, Start Num: 17

Candidate Starts for CogOmlette_81:

(1, 46444), (2, 46420), (7, 46366), (8, 46363), (Start: 17 @46105 has 15 MA's), (19, 46084), (23, 46033), (26, 46012), (28, 45958), (29, 45955), (37, 45868),

Gene: DaVinci_86 Start: 46257, Stop: 45946, Start Num: 17

Candidate Starts for DaVinci_86:

(1, 46596), (2, 46572), (7, 46518), (8, 46515), (9, 46497), (Start: 17 @46257 has 15 MA's), (20, 46233), (Start: 22 @46188 has 2 MA's), (28, 46110), (29, 46107), (31, 46086), (38, 46011), (39, 46008),

Gene: DreamTeam1_79 Start: 45877, Stop: 45557, Start Num: 17

Candidate Starts for DreamTeam1_79:

(1, 46216), (2, 46192), (7, 46138), (8, 46135), (Start: 17 @45877 has 15 MA's), (19, 45856), (27, 45769), (28, 45730), (29, 45727), (35, 45661), (37, 45640), (40, 45619), (43, 45574),

Gene: EricB_86 Start: 46400, Stop: 46089, Start Num: 17

Candidate Starts for EricB_86:

(1, 46739), (2, 46715), (7, 46661), (8, 46658), (9, 46640), (Start: 17 @46400 has 15 MA's), (20, 46376), (Start: 22 @46331 has 2 MA's), (28, 46253), (29, 46250), (31, 46229), (38, 46154), (39, 46151),

Gene: ExplosioNervosa_82 Start: 46419, Stop: 46111, Start Num: 17

Candidate Starts for ExplosioNervosa_82:

(1, 46758), (2, 46734), (7, 46680), (8, 46677), (12, 46626), (Start: 17 @46419 has 15 MA's), (19, 46398), (Start: 22 @46350 has 2 MA's), (28, 46272), (29, 46269), (37, 46182),

Gene: Garak_91 Start: 47274, Stop: 47029, Start Num: 21

Candidate Starts for Garak_91:

(1, 47679), (2, 47655), (7, 47601), (8, 47598), (9, 47580), (Start: 21 @47274 has 1 MA's), (28, 47193), (29, 47190), (31, 47169), (38, 47094), (39, 47091),

Gene: Getalong_86 Start: 49030, Stop: 49260, Start Num: 22

Candidate Starts for Getalong_86:

(Start: 22 @49030 has 2 MA's), (28, 49108), (29, 49111), (32, 49150), (33, 49168), (41, 49222),

Gene: Gmala1_29 Start: 35756, Stop: 35965, Start Num: 24

Candidate Starts for Gmala1_29:

(4, 35387), (5, 35390), (6, 35414), (10, 35462), (11, 35465), (14, 35525), (15, 35561), (16, 35597), (18, 35696), (24, 35756), (29, 35831), (30, 35837),

Gene: GordDuk1_29 Start: 35694, Stop: 35903, Start Num: 24

Candidate Starts for GordDuk1_29:

(5, 35328), (6, 35352), (10, 35400), (11, 35403), (14, 35463), (15, 35499), (16, 35535), (18, 35634), (24, 35694), (29, 35769), (30, 35775),

Gene: GordTnk2_29 Start: 35663, Stop: 35872, Start Num: 24

Candidate Starts for GordTnk2_29:

(5, 35297), (6, 35321), (10, 35369), (11, 35372), (14, 35432), (15, 35468), (16, 35504), (18, 35603), (24, 35663), (29, 35738), (30, 35744),

Gene: GreedyLawyer_81 Start: 46833, Stop: 46522, Start Num: 17

Candidate Starts for GreedyLawyer_81:

(1, 47172), (2, 47148), (7, 47094), (8, 47091), (9, 47073), (Start: 17 @46833 has 15 MA's), (20, 46809), (Start: 22 @46764 has 2 MA's), (28, 46686), (29, 46683), (31, 46662), (38, 46587), (39, 46584),

Gene: Indra_93 Start: 47275, Stop: 47030, Start Num: 21

Candidate Starts for Indra_93:

(1, 47680), (2, 47656), (7, 47602), (8, 47599), (9, 47581), (Start: 21 @47275 has 1 MA's), (28, 47194), (29, 47191), (31, 47170), (38, 47095), (39, 47092),

Gene: Jumbo_36 Start: 42029, Stop: 42262, Start Num: 25

Candidate Starts for Jumbo_36:

(3, 41654), (5, 41663), (10, 41735), (11, 41738), (13, 41762), (14, 41798), (15, 41834), (16, 41870), (Start: 25 @42029 has 1 MA's), (29, 42101), (33, 42161), (34, 42167), (36, 42182), (42, 42245),

Gene: Kipper29_88 Start: 46875, Stop: 46564, Start Num: 17

Candidate Starts for Kipper29_88:

(1, 47214), (2, 47190), (7, 47136), (8, 47133), (9, 47115), (Start: 17 @46875 has 15 MA's), (20, 46851), (Start: 22 @46806 has 2 MA's), (28, 46728), (29, 46725), (31, 46704), (38, 46629), (39, 46626),

Gene: Klodlith_80 Start: 46099, Stop: 45779, Start Num: 17

Candidate Starts for Klodlith_80:

(1, 46438), (2, 46414), (7, 46360), (8, 46357), (Start: 17 @46099 has 15 MA's), (19, 46078), (27, 45991), (28, 45952), (29, 45949), (35, 45883), (37, 45862), (40, 45841), (43, 45796),

Gene: McFly_88 Start: 47211, Stop: 46900, Start Num: 17

Candidate Starts for McFly_88:

(1, 47550), (2, 47526), (7, 47472), (8, 47469), (9, 47451), (Start: 17 @47211 has 15 MA's), (20, 47187), (Start: 22 @47142 has 2 MA's), (28, 47064), (29, 47061), (31, 47040), (38, 46965), (39, 46962),

Gene: MegTheThird_80 Start: 46082, Stop: 45786, Start Num: 19

Candidate Starts for MegTheThird_80:

(1, 46442), (2, 46418), (7, 46364), (8, 46361), (19, 46082), (28, 45956), (29, 45953), (43, 45800),

Gene: Minispark_81 Start: 46102, Stop: 45794, Start Num: 17

Candidate Starts for Minispark_81:

(1, 46441), (2, 46417), (7, 46363), (8, 46360), (Start: 17 @46102 has 15 MA's), (19, 46081), (23, 46030), (26, 46009), (28, 45955), (29, 45952), (37, 45865),

Gene: Neeharika16_87 Start: 46962, Stop: 46651, Start Num: 17

Candidate Starts for Neeharika16_87:

(1, 47301), (2, 47277), (7, 47223), (8, 47220), (9, 47202), (Start: 17 @46962 has 15 MA's), (20, 46938), (Start: 22 @46893 has 2 MA's), (28, 46815), (29, 46812), (31, 46791), (38, 46716), (39, 46713),

Gene: Newrala_87 Start: 47308, Stop: 46997, Start Num: 17

Candidate Starts for Newrala_87:

(1, 47647), (2, 47623), (7, 47569), (8, 47566), (9, 47548), (Start: 17 @47308 has 15 MA's), (20, 47284), (Start: 22 @47239 has 2 MA's), (28, 47161), (29, 47158), (31, 47137), (38, 47062), (39, 47059),

Gene: Pmask_87 Start: 47509, Stop: 47198, Start Num: 17

Candidate Starts for Pmask_87:

(1, 47848), (2, 47824), (7, 47770), (8, 47767), (9, 47749), (Start: 17 @47509 has 15 MA's), (20, 47485), (Start: 22 @47440 has 2 MA's), (28, 47362), (29, 47359), (31, 47338), (38, 47263), (39, 47260),

Gene: Priamo_89 Start: 46752, Stop: 46441, Start Num: 17

Candidate Starts for Priamo_89:

(1, 47091), (2, 47067), (7, 47013), (8, 47010), (9, 46992), (Start: 17 @46752 has 15 MA's), (20, 46728), (Start: 22 @46683 has 2 MA's), (28, 46605), (29, 46602), (31, 46581), (38, 46506), (39, 46503),

Gene: SuperAwesome_88 Start: 47548, Stop: 47237, Start Num: 17

Candidate Starts for SuperAwesome_88:

(1, 47887), (2, 47863), (7, 47809), (8, 47806), (9, 47788), (Start: 17 @47548 has 15 MA's), (20, 47524), (Start: 22 @47479 has 2 MA's), (28, 47401), (29, 47398), (31, 47377), (38, 47302), (39, 47299),

Gene: SuperCallie99_84 Start: 46929, Stop: 46618, Start Num: 17

Candidate Starts for SuperCallie99_84:

(1, 47268), (2, 47244), (7, 47190), (8, 47187), (9, 47169), (Start: 17 @46929 has 15 MA's), (20, 46905), (Start: 22 @46860 has 2 MA's), (28, 46782), (29, 46779), (31, 46758), (38, 46683), (39, 46680),

Gene: VohminGhazi_88 Start: 46867, Stop: 46556, Start Num: 17

Candidate Starts for VohminGhazi_88:

(1, 47206), (2, 47182), (7, 47128), (8, 47125), (9, 47107), (Start: 17 @46867 has 15 MA's), (20, 46843), (Start: 22 @46798 has 2 MA's), (28, 46720), (29, 46717), (31, 46696), (38, 46621), (39, 46618),

Gene: Whitney_81 Start: 48351, Stop: 48581, Start Num: 22

Candidate Starts for Whitney_81:

(Start: 22 @48351 has 2 MA's), (28, 48429), (29, 48432), (32, 48471), (33, 48489), (41, 48543),

Gene: WorldCup_82 Start: 46235, Stop: 45948, Start Num: 19

Candidate Starts for WorldCup_82:

(1, 46595), (2, 46571), (7, 46517), (8, 46514), (Start: 17 @46256 has 15 MA's), (19, 46235), (23, 46184), (26, 46163), (28, 46109), (29, 46106), (37, 46019),

Gene: Zulu_91 Start: 47348, Stop: 47037, Start Num: 17

Candidate Starts for Zulu_91:

(1, 47687), (2, 47663), (7, 47609), (8, 47606), (9, 47588), (Start: 17 @47348 has 15 MA's), (20, 47324), (Start: 22 @47279 has 2 MA's), (28, 47201), (29, 47198), (31, 47177), (38, 47102), (39, 47099),