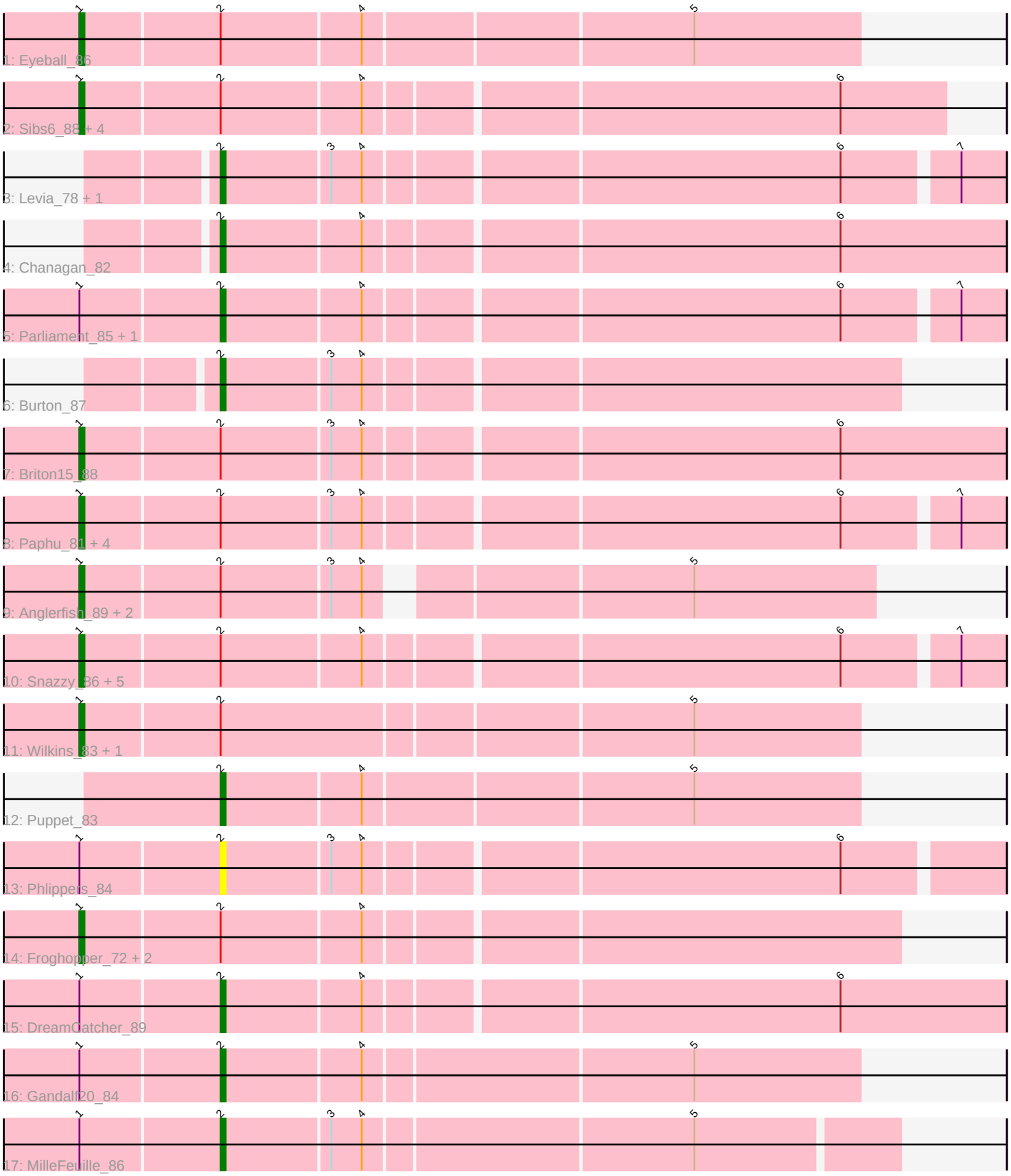
# Pham 327263


1: Eyeball_86
2: Sibs6_88 + 4
3: Levia_78 + 1
4: Chanagan_82
5: Parliament_85 + 1
6: Burton_87
7: Briton15_88
8: Paphu_81 + 4
9: Anglerfish_89 + 2
10: Snazzy_86 + 5
11: Wilkins_83 + 1
12: Puppet_83
13: Phlippers_84
14: Froghopper_72 + 2
15: DreamCatcher_89
16: Gandalf20_84
17: MilleFeuille_86

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 327263 Report

This analysis was run 09/05/26 on database version 662.

Pham number 327263 has 37 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Eyeball_86
• Track 2 : Sibs6_88, KikiBouba_80, Noxious_82, BaconJack_89, Sorpresa_85
• Track 3 : Levia_78, Norz_81
• Track 4 : Chanagan_82
• Track 5 : Parliament_85, Lamina13_87
• Track 6 : Burton_87
• Track 7 : Briton15_88
• Track 8 : Paphu_81, HarryOW_85, Dynamix_84, Gyzlar_76, CactusRose_90
• Track 9 : Anglerfish_89, Sunshine924_88, ConceptII_93
• Track 10 : Snazzy_86, NEHalo_82, Payneful_73, Ohno789_89, Rajelicia_86, KyMonks1A_91
• Track 11 : Wilkins_83, Topgun_82
• Track 12 : Puppet_83
• Track 13 : Phlippers_84
• Track 14 : Froghopper_72, GMonster_82, Arlo_86
• Track 15 : DreamCatcher_89
• Track 16 : Gandalf20_84
• Track 17 : MilleFeuille_86

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

The start number called the most often in the published annotations is 1, it was called in 26 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Anglerfish_89, Arlo_86, BaconJack_89, Briton15_88, CactusRose_90, ConceptII_93, Dynamix_84, Eyeball_86, Froghopper_72, GMonster_82, Gyzlar_76, HarryOW_85, KikiBouba_80, KyMonks1A_91, NEHalo_82, Noxious_82, Ohno789_89, Paphu_81, Payneful_73, Rajelicia_86, Sibs6_88, Snazzy_86, Sorpresa_85, Sunshine924_88, Topgun_82, Wilkins_83,

Genes that have the "Most Annotated" start but do not call it:
• DreamCatcher_89, Gandalf20_84, Lamina13_87, MilleFeuille_86, Parliament_85, Phlippers_84,

Genes that do not have the "Most Annotated" start:
• Burton_87, Chanagan_82, Levia_78, Norz_81, Puppet_83,

**Summary by start number:**

Start 1:
• Found in 32 of 37 ( 86.5% ) of genes in pham
• Manual Annotations of this start: 26 of 36
• Called 81.2% of time when present
• Phage (with cluster) where this start called: Anglerfish_89 (A1), Arlo_86 (A1), BaconJack_89 (A1), Briton15_88 (A1), CactusRose_90 (A1), ConceptII_93 (A1), Dynamix_84 (A1), Eyeball_86 (A1), Froghopper_72 (A1), GMonster_82 (A1), Gyzlar_76 (A1), HarryOW_85 (A1), KikiBouba_80 (A1), KyMonks1A_91 (A1), NEHalo_82 (A1), Noxious_82 (A1), Ohno789_89 (A1), Paphu_81 (A1), Payneful_73 (A1), Rajelicia_86 (A1), Sibs6_88 (A1), Snazzy_86 (A1), Sorpresa_85 (A1), Sunshine924_88 (A1), Topgun_82 (A1), Wilkins_83 (A1),

Start 2:
• Found in 37 of 37 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 10 of 36
• Called 29.7% of time when present
• Phage (with cluster) where this start called: Burton_87 (A1), Chanagan_82 (A1), DreamCatcher_89 (A1), Gandalf20_84 (A1), Lamina13_87 (A1), Levia_78 (A1), MilleFeuille_86 (A1), Norz_81 (A1), Parliament_85 (A1), Phlippers_84 (A1), Puppet_83 (A1),

**Summary by clusters:**

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:
•Start number 1 was manually annotated 26 times for cluster A1.
•Start number 2 was manually annotated 10 times for cluster A1.

***Gene Information:***

Gene: Anglerfish_89 Start: 50429, Stop: 50283, Start Num: 1
Candidate Starts for Anglerfish_89:
(Start: 1 @50429 has 26 MA's), (Start: 2 @50402 has 10 MA's), (3, 50381), (4, 50375), (5, 50318),

Gene: Arlo_86 Start: 49278, Stop: 49123, Start Num: 1
Candidate Starts for Arlo_86:
(Start: 1 @49278 has 26 MA's), (Start: 2 @49251 has 10 MA's), (4, 49224),

Gene: BaconJack_89 Start: 51009, Stop: 50845, Start Num: 1
Candidate Starts for BaconJack_89:
(Start: 1 @51009 has 26 MA's), (Start: 2 @50982 has 10 MA's), (4, 50955), (6, 50865),

Gene: Briton15_88 Start: 49944, Stop: 49768, Start Num: 1
Candidate Starts for Briton15_88:

(Start: 1 @49944 has 26 MA's), (Start: 2 @49917 has 10 MA's), (3, 49896), (4, 49890), (6, 49800),

Gene: Burton_87 Start: 51034, Stop: 50906, Start Num: 2
Candidate Starts for Burton_87:
(Start: 2 @51034 has 10 MA's), (3, 51013), (4, 51007),

Gene: CactusRose_90 Start: 49994, Stop: 49821, Start Num: 1
Candidate Starts for CactusRose_90:
(Start: 1 @49994 has 26 MA's), (Start: 2 @49967 has 10 MA's), (3, 49946), (4, 49940), (6, 49850), (7, 49829),

Gene: Chanagan_82 Start: 47023, Stop: 46874, Start Num: 2
Candidate Starts for Chanagan_82:
(Start: 2 @47023 has 10 MA's), (4, 46996), (6, 46906),

Gene: ConceptII_93 Start: 51306, Stop: 51157, Start Num: 1
Candidate Starts for ConceptII_93:
(Start: 1 @51306 has 26 MA's), (Start: 2 @51279 has 10 MA's), (3, 51258), (4, 51252), (5, 51189),

Gene: DreamCatcher_89 Start: 49533, Stop: 49384, Start Num: 2
Candidate Starts for DreamCatcher_89:
(Start: 1 @49560 has 26 MA's), (Start: 2 @49533 has 10 MA's), (4, 49506), (6, 49416),

Gene: Dynamix_84 Start: 47288, Stop: 47115, Start Num: 1
Candidate Starts for Dynamix_84:
(Start: 1 @47288 has 26 MA's), (Start: 2 @47261 has 10 MA's), (3, 47240), (4, 47234), (6, 47144), (7, 47123),

Gene: Eyeball_86 Start: 49179, Stop: 49030, Start Num: 1
Candidate Starts for Eyeball_86:
(Start: 1 @49179 has 26 MA's), (Start: 2 @49152 has 10 MA's), (4, 49125), (5, 49062),

Gene: Froghopper_72 Start: 45039, Stop: 44884, Start Num: 1
Candidate Starts for Froghopper_72:
(Start: 1 @45039 has 26 MA's), (Start: 2 @45012 has 10 MA's), (4, 44985),

Gene: GMonster_82 Start: 48312, Stop: 48157, Start Num: 1
Candidate Starts for GMonster_82:
(Start: 1 @48312 has 26 MA's), (Start: 2 @48285 has 10 MA's), (4, 48258),

Gene: Gandalf20_84 Start: 48924, Stop: 48802, Start Num: 2
Candidate Starts for Gandalf20_84:
(Start: 1 @48951 has 26 MA's), (Start: 2 @48924 has 10 MA's), (4, 48897), (5, 48834),

Gene: Gyzlar_76 Start: 45083, Stop: 44910, Start Num: 1
Candidate Starts for Gyzlar_76:
(Start: 1 @45083 has 26 MA's), (Start: 2 @45056 has 10 MA's), (3, 45035), (4, 45029), (6, 44939), (7, 44918),

Gene: HarryOW_85 Start: 50108, Stop: 49935, Start Num: 1
Candidate Starts for HarryOW_85:
(Start: 1 @50108 has 26 MA's), (Start: 2 @50081 has 10 MA's), (3, 50060), (4, 50054), (6, 49964), (7, 49943),

Gene: KikiBouba_80 Start: 46870, Stop: 46694, Start Num: 1
Candidate Starts for KikiBouba_80:
(Start: 1 @46870 has 26 MA's), (Start: 2 @46843 has 10 MA's), (4, 46816), (6, 46726),

Gene: KyMonks1A_91 Start: 49829, Stop: 49656, Start Num: 1
Candidate Starts for KyMonks1A_91:
(Start: 1 @49829 has 26 MA's), (Start: 2 @49802 has 10 MA's), (4, 49775), (6, 49685), (7, 49664),

Gene: Lamina13_87 Start: 50524, Stop: 50378, Start Num: 2
Candidate Starts for Lamina13_87:
(Start: 1 @50551 has 26 MA's), (Start: 2 @50524 has 10 MA's), (4, 50497), (6, 50407), (7, 50386),

Gene: Levia_78 Start: 46368, Stop: 46222, Start Num: 2
Candidate Starts for Levia_78:
(Start: 2 @46368 has 10 MA's), (3, 46347), (4, 46341), (6, 46251), (7, 46230),

Gene: MilleFeuille_86 Start: 48034, Stop: 47906, Start Num: 2
Candidate Starts for MilleFeuille_86:
(Start: 1 @48061 has 26 MA's), (Start: 2 @48034 has 10 MA's), (3, 48013), (4, 48007), (5, 47944),

Gene: NEHalo_82 Start: 48188, Stop: 48015, Start Num: 1
Candidate Starts for NEHalo_82:
(Start: 1 @48188 has 26 MA's), (Start: 2 @48161 has 10 MA's), (4, 48134), (6, 48044), (7, 48023),

Gene: Norz_81 Start: 50898, Stop: 50752, Start Num: 2
Candidate Starts for Norz_81:
(Start: 2 @50898 has 10 MA's), (3, 50877), (4, 50871), (6, 50781), (7, 50760),

Gene: Noxious_82 Start: 47407, Stop: 47231, Start Num: 1
Candidate Starts for Noxious_82:
(Start: 1 @47407 has 26 MA's), (Start: 2 @47380 has 10 MA's), (4, 47353), (6, 47263),

Gene: Ohno789_89 Start: 50417, Stop: 50244, Start Num: 1
Candidate Starts for Ohno789_89:
(Start: 1 @50417 has 26 MA's), (Start: 2 @50390 has 10 MA's), (4, 50363), (6, 50273), (7, 50252),

Gene: Paphu_81 Start: 47874, Stop: 47701, Start Num: 1
Candidate Starts for Paphu_81:
(Start: 1 @47874 has 26 MA's), (Start: 2 @47847 has 10 MA's), (3, 47826), (4, 47820), (6, 47730), (7, 47709),

Gene: Parliament_85 Start: 51007, Stop: 50861, Start Num: 2
Candidate Starts for Parliament_85:
(Start: 1 @51034 has 26 MA's), (Start: 2 @51007 has 10 MA's), (4, 50980), (6, 50890), (7, 50869),

Gene: Payneful_73 Start: 45129, Stop: 44956, Start Num: 1
Candidate Starts for Payneful_73:
(Start: 1 @45129 has 26 MA's), (Start: 2 @45102 has 10 MA's), (4, 45075), (6, 44985), (7, 44964),

Gene: Phlippers_84 Start: 50146, Stop: 50000, Start Num: 2
Candidate Starts for Phlippers_84:
(Start: 1 @50173 has 26 MA's), (Start: 2 @50146 has 10 MA's), (3, 50125), (4, 50119), (6, 50029),

Gene: Puppet_83 Start: 49576, Stop: 49454, Start Num: 2
Candidate Starts for Puppet_83:
(Start: 2 @49576 has 10 MA's), (4, 49549), (5, 49486),

Gene: Rajelicia_86 Start: 51261, Stop: 51088, Start Num: 1
Candidate Starts for Rajelicia_86:
(Start: 1 @51261 has 26 MA's), (Start: 2 @51234 has 10 MA's), (4, 51207), (6, 51117), (7, 51096),

Gene: Sibs6_88 Start: 46921, Stop: 46757, Start Num: 1
Candidate Starts for Sibs6_88:
(Start: 1 @46921 has 26 MA's), (Start: 2 @46894 has 10 MA's), (4, 46867), (6, 46777),

Gene: Snazzy_86 Start: 49312, Stop: 49139, Start Num: 1
Candidate Starts for Snazzy_86:
(Start: 1 @49312 has 26 MA's), (Start: 2 @49285 has 10 MA's), (4, 49258), (6, 49168), (7, 49147),

Gene: Sorpresa_85 Start: 49585, Stop: 49409, Start Num: 1
Candidate Starts for Sorpresa_85:
(Start: 1 @49585 has 26 MA's), (Start: 2 @49558 has 10 MA's), (4, 49531), (6, 49441),

Gene: Sunshine924_88 Start: 48484, Stop: 48335, Start Num: 1
Candidate Starts for Sunshine924_88:
(Start: 1 @48484 has 26 MA's), (Start: 2 @48457 has 10 MA's), (3, 48436), (4, 48430), (5, 48367),

Gene: Topgun_82 Start: 47338, Stop: 47189, Start Num: 1
Candidate Starts for Topgun_82:
(Start: 1 @47338 has 26 MA's), (Start: 2 @47311 has 10 MA's), (5, 47221),

Gene: Wilkins_83 Start: 47268, Stop: 47119, Start Num: 1
Candidate Starts for Wilkins_83:
(Start: 1 @47268 has 26 MA's), (Start: 2 @47241 has 10 MA's), (5, 47151),