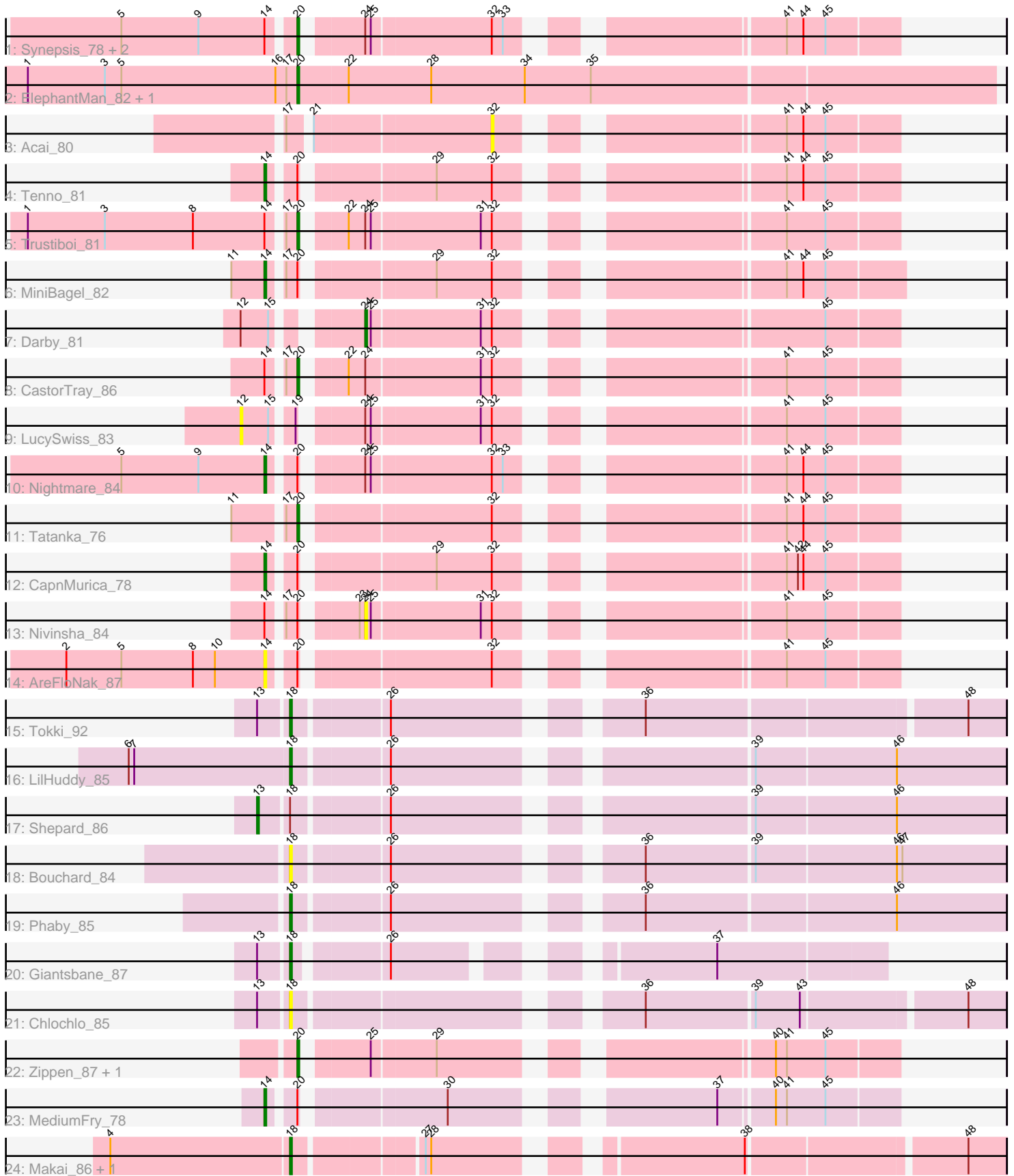


Pham 223344



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 223344 Report

This analysis was run 03/28/25 on database version 593.

Pham number 223344 has 29 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Synepsis_78, ScienceWizSam_84, DevitoJr_82
- Track 2 : ElephantMan_82, Niktson_82
- Track 3 : Acai_80
- Track 4 : Tenno_81
- Track 5 : Trustiboi_81
- Track 6 : MiniBagel_82
- Track 7 : Darby_81
- Track 8 : CastorTray_86
- Track 9 : LucySwiss_83
- Track 10 : Nightmare_84
- Track 11 : Tatanka_76
- Track 12 : CapnMurica_78
- Track 13 : Nivinsha_84
- Track 14 : AreFloNak_87
- Track 15 : Tokki_92
- Track 16 : LilHuddy_85
- Track 17 : Shepard_86
- Track 18 : Bouchard_84
- Track 19 : Phaby_85
- Track 20 : Giantsbane_87
- Track 21 : Chlochlo_85
- Track 22 : Zippen_87, Inked_87
- Track 23 : MediumFry_78
- Track 24 : Makai_86, Truckee_83

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

The start number called the most often in the published annotations is 20, it was called in 9 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CastorTray_86, DevitoJr_82, ElephantMan_82, Inked_87, Niktson_82, ScienceWizSam_84, Synepsis_78, Tatanka_76, Trustiboi_81, Zippen_87,

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

- AreFloNak_87, CapnMurica_78, MediumFry_78, MiniBagel_82, Nightmare_84, Nivinsha_84, Tenno_81,

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

- Acai_80, Bouchard_84, Chlochlo_85, Darby_81, Giantsbane_87, LilHuddy_85, LucySwiss_83, Makai_86, Phaby_85, Shepard_86, Tokki_92, Truckee_83,

Summary by start number:

Start 12:

- Found in 2 of 29 (6.9%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: LucySwiss_83 (AU1),

Start 13:

- Found in 4 of 29 (13.8%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Shepard_86 (AU2),

Start 14:

- Found in 12 of 29 (41.4%) of genes in pham
- Manual Annotations of this start: 5 of 22
- Called 50.0% of time when present
- Phage (with cluster) where this start called: AreFloNak_87 (AU1), CapnMurica_78 (AU1), MediumFry_78 (AU4), MiniBagel_82 (AU1), Nightmare_84 (AU1), Tenno_81 (AU1),

Start 18:

- Found in 9 of 29 (31.0%) of genes in pham
- Manual Annotations of this start: 6 of 22
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Bouchard_84 (AU2), Chlochlo_85 (AU2), Giantsbane_87 (AU2), LilHuddy_85 (AU2), Makai_86 (AU5), Phaby_85 (AU2), Tokki_92 (AU2), Truckee_83 (AU5),

Start 20:

- Found in 17 of 29 (58.6%) of genes in pham
- Manual Annotations of this start: 9 of 22
- Called 58.8% of time when present
- Phage (with cluster) where this start called: CastorTray_86 (AU1), DevitoJr_82 (AU1), ElephantMan_82 (AU1), Inked_87 (AU), Niktson_82 (AU1), ScienceWizSam_84 (AU1), Synopsis_78 (AU1), Tatanka_76 (AU1), Trustiboi_81 (AU1), Zippen_87 (AU3),

Start 24:

- Found in 9 of 29 (31.0%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Darby_81 (AU1), Nivinsha_84 (AU1),

Start 32:

- Found in 15 of 29 (51.7%) of genes in pham
- No Manual Annotations of this start.
- Called 6.7% of time when present
- Phage (with cluster) where this start called: Acai_80 (AU1),

Summary by clusters:

There are 6 clusters represented in this pham: AU1, AU3, AU2, AU, AU4, AU5,

Info for manual annotations of cluster AU:

- Start number 20 was manually annotated 1 time for cluster AU.

Info for manual annotations of cluster AU1:

- Start number 14 was manually annotated 4 times for cluster AU1.
- Start number 20 was manually annotated 8 times for cluster AU1.
- Start number 24 was manually annotated 1 time for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 13 was manually annotated 1 time for cluster AU2.
- Start number 18 was manually annotated 4 times for cluster AU2.

Info for manual annotations of cluster AU4:

- Start number 14 was manually annotated 1 time for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 18 was manually annotated 2 times for cluster AU5.

Gene Information:

Gene: Acai_80 Start: 52181, Stop: 52366, Start Num: 32

Candidate Starts for Acai_80:

(17, 52079), (21, 52088), (32, 52181), (41, 52307), (44, 52316), (45, 52328),

Gene: AreFloNak_87 Start: 52158, Stop: 52448, Start Num: 14

Candidate Starts for AreFloNak_87:

(2, 52050), (5, 52080), (8, 52119), (10, 52131), (Start: 14 @52158 has 5 MA's), (Start: 20 @52170 has 9 MA's), (32, 52263), (41, 52389), (45, 52410),

Gene: Bouchard_84 Start: 52033, Stop: 52383, Start Num: 18

Candidate Starts for Bouchard_84:

(Start: 18 @52033 has 6 MA's), (26, 52081), (36, 52192), (39, 52249), (46, 52324), (47, 52327),

Gene: CapnMurica_78 Start: 52343, Stop: 52633, Start Num: 14

Candidate Starts for CapnMurica_78:

(Start: 14 @52343 has 5 MA's), (Start: 20 @52355 has 9 MA's), (29, 52418), (32, 52448), (41, 52574), (42, 52580), (44, 52583), (45, 52595),

Gene: CastorTray_86 Start: 52899, Stop: 53177, Start Num: 20

Candidate Starts for CastorTray_86:

(Start: 14 @52887 has 5 MA's), (17, 52893), (Start: 20 @52899 has 9 MA's), (22, 52917), (Start: 24 @52926 has 1 MA's), (31, 52986), (32, 52992), (41, 53118), (45, 53139),

Gene: Chlochlo_85 Start: 52195, Stop: 52539, Start Num: 18

Candidate Starts for Chlochlo_85:

(Start: 13 @52180 has 1 MA's), (Start: 18 @52195 has 6 MA's), (36, 52354), (39, 52411), (43, 52435), (48, 52519),

Gene: Darby_81 Start: 52415, Stop: 52666, Start Num: 24

Candidate Starts for Darby_81:

(12, 52364), (15, 52379), (Start: 24 @52415 has 1 MA's), (25, 52418), (31, 52475), (32, 52481), (45, 52628),

Gene: DevitoJr_82 Start: 52047, Stop: 52325, Start Num: 20

Candidate Starts for DevitoJr_82:

(5, 51957), (9, 51999), (Start: 14 @52035 has 5 MA's), (Start: 20 @52047 has 9 MA's), (Start: 24 @52074 has 1 MA's), (25, 52077), (32, 52140), (33, 52146), (41, 52266), (44, 52275), (45, 52287),

Gene: ElephantMan_82 Start: 52676, Stop: 53050, Start Num: 20

Candidate Starts for ElephantMan_82:

(1, 52529), (3, 52571), (5, 52580), (16, 52664), (17, 52670), (Start: 20 @52676 has 9 MA's), (22, 52703), (28, 52748), (34, 52799), (35, 52835),

Gene: Giantsbane_87 Start: 51659, Stop: 51931, Start Num: 18

Candidate Starts for Giantsbane_87:

(Start: 13 @51644 has 1 MA's), (Start: 18 @51659 has 6 MA's), (26, 51704), (37, 51842),

Gene: Inked_87 Start: 52710, Stop: 52988, Start Num: 20

Candidate Starts for Inked_87:

(Start: 20 @52710 has 9 MA's), (25, 52740), (29, 52773), (40, 52923), (41, 52929), (45, 52950),

Gene: LilHuddy_85 Start: 52109, Stop: 52459, Start Num: 18

Candidate Starts for LilHuddy_85:

(6, 52022), (7, 52025), (Start: 18 @52109 has 6 MA's), (26, 52157), (39, 52325), (46, 52400),

Gene: LucySwiss_83 Start: 52278, Stop: 52580, Start Num: 12

Candidate Starts for LucySwiss_83:

(12, 52278), (15, 52293), (19, 52302), (Start: 24 @52329 has 1 MA's), (25, 52332), (31, 52389), (32, 52395), (41, 52521), (45, 52542),

Gene: Makai_86 Start: 52779, Stop: 53117, Start Num: 18

Candidate Starts for Makai_86:

(4, 52683), (Start: 18 @52779 has 6 MA's), (27, 52842), (28, 52845), (38, 52986), (48, 53097),

Gene: MediumFry_78 Start: 51487, Stop: 51777, Start Num: 14

Candidate Starts for MediumFry_78:

(Start: 14 @51487 has 5 MA's), (Start: 20 @51499 has 9 MA's), (30, 51568), (37, 51685), (40, 51712), (41, 51718), (45, 51739),

Gene: MiniBagel_82 Start: 52344, Stop: 52637, Start Num: 14

Candidate Starts for MiniBagel_82:

(11, 52326), (Start: 14 @52344 has 5 MA's), (17, 52350), (Start: 20 @52356 has 9 MA's), (29, 52419), (32, 52449), (41, 52575), (44, 52584), (45, 52596),

Gene: Nightmare_84 Start: 52989, Stop: 53279, Start Num: 14

Candidate Starts for Nightmare_84:

(5, 52911), (9, 52953), (Start: 14 @52989 has 5 MA's), (Start: 20 @53001 has 9 MA's), (Start: 24 @53028 has 1 MA's), (25, 53031), (32, 53094), (33, 53100), (41, 53220), (44, 53229), (45, 53241),

Gene: Niktson_82 Start: 52676, Stop: 53050, Start Num: 20

Candidate Starts for Niktson_82:

(1, 52529), (3, 52571), (5, 52580), (16, 52664), (17, 52670), (Start: 20 @52676 has 9 MA's), (22, 52703), (28, 52748), (34, 52799), (35, 52835),

Gene: Nivinsha_84 Start: 52198, Stop: 52449, Start Num: 24

Candidate Starts for Nivinsha_84:

(Start: 14 @52159 has 5 MA's), (17, 52165), (Start: 20 @52171 has 9 MA's), (23, 52195), (Start: 24 @52198 has 1 MA's), (25, 52201), (31, 52258), (32, 52264), (41, 52390), (45, 52411),

Gene: Phaby_85 Start: 52012, Stop: 52362, Start Num: 18

Candidate Starts for Phaby_85:

(Start: 18 @52012 has 6 MA's), (26, 52060), (36, 52171), (46, 52303),

Gene: ScienceWizSam_84 Start: 52220, Stop: 52498, Start Num: 20

Candidate Starts for ScienceWizSam_84:

(5, 52130), (9, 52172), (Start: 14 @52208 has 5 MA's), (Start: 20 @52220 has 9 MA's), (Start: 24 @52247 has 1 MA's), (25, 52250), (32, 52313), (33, 52319), (41, 52439), (44, 52448), (45, 52460),

Gene: Shepard_86 Start: 52221, Stop: 52586, Start Num: 13

Candidate Starts for Shepard_86:

(Start: 13 @52221 has 1 MA's), (Start: 18 @52236 has 6 MA's), (26, 52284), (39, 52452), (46, 52527),

Gene: Synopsis_78 Start: 52058, Stop: 52336, Start Num: 20

Candidate Starts for Synopsis_78:

(5, 51968), (9, 52010), (Start: 14 @52046 has 5 MA's), (Start: 20 @52058 has 9 MA's), (Start: 24 @52085 has 1 MA's), (25, 52088), (32, 52151), (33, 52157), (41, 52277), (44, 52286), (45, 52298),

Gene: Tatanka_76 Start: 51974, Stop: 52252, Start Num: 20

Candidate Starts for Tatanka_76:

(11, 51944), (17, 51968), (Start: 20 @51974 has 9 MA's), (32, 52067), (41, 52193), (44, 52202), (45, 52214),

Gene: Tenno_81 Start: 52377, Stop: 52667, Start Num: 14

Candidate Starts for Tenno_81:

(Start: 14 @52377 has 5 MA's), (Start: 20 @52389 has 9 MA's), (29, 52452), (32, 52482), (41, 52608), (44, 52617), (45, 52629),

Gene: Tokki_92 Start: 52593, Stop: 52937, Start Num: 18

Candidate Starts for Tokki_92:

(Start: 13 @52578 has 1 MA's), (Start: 18 @52593 has 6 MA's), (26, 52641), (36, 52752), (48, 52917),

Gene: Truckee_83 Start: 52472, Stop: 52810, Start Num: 18

Candidate Starts for Truckee_83:

(4, 52376), (Start: 18 @52472 has 6 MA's), (27, 52535), (28, 52538), (38, 52679), (48, 52790),

Gene: Trustiboi_81 Start: 52407, Stop: 52685, Start Num: 20

Candidate Starts for Trustiboi_81:

(1, 52266), (3, 52308), (8, 52356), (Start: 14 @52395 has 5 MA's), (17, 52401), (Start: 20 @52407 has 9 MA's), (22, 52425), (Start: 24 @52434 has 1 MA's), (25, 52437), (31, 52494), (32, 52500), (41, 52626), (45, 52647),

Gene: Zippen_87 Start: 52752, Stop: 53030, Start Num: 20

Candidate Starts for Zippen_87:

(Start: 20 @52752 has 9 MA's), (25, 52782), (29, 52815), (40, 52965), (41, 52971), (45, 52992),