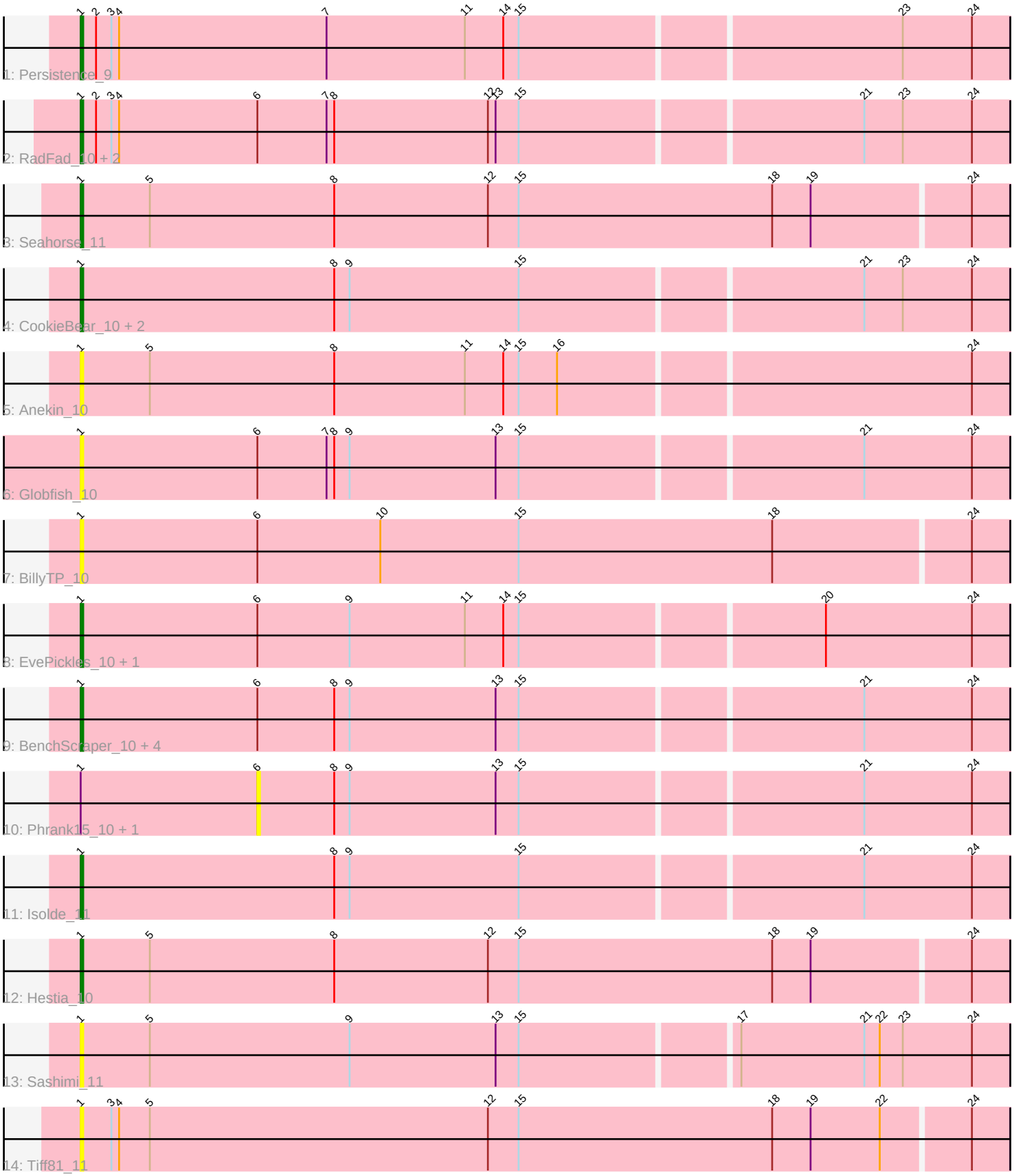
# Pham 171728


1: Persistence_9
2: RadFad_10 + 2
3: Seahorse_11
4: CookieBear_10 + 2
5: Anekin_10
6: Globfish_10
7: BillyTP_10
8: EvePickles_10 + 1
9: BenchScraper_10 + 4
10: Phrank15_10 + 1
11: Isolde_11
12: Hestia_10
13: Sashimi_11
14: Tiff81_11

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 171728 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171728 has 24 members, 11 are drafts.

Phages represented in each track:
• Track 1 : Persistence_9
• Track 2 : RadFad_10, Hillester_10, MidnightRain_10
• Track 3 : Seahorse_11
• Track 4 : CookieBear_10, Raphaella_10, Auxilium_10
• Track 5 : Anekin_10
• Track 6 : Globfish_10
• Track 7 : BillyTP_10
• Track 8 : EvePickles_10, Faja_10
• Track 9 : BenchScraper_10, Richie_10, Aikyam_10, Sakai_10, Gorpy_10
• Track 10 : Phrank15_10, YoungHarleezy_10
• Track 11 : Isolde_11
• Track 12 : Hestia_10
• Track 13 : Sashimi_11
• Track 14 : Tiff81_11

***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 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aikyam_10, Anekin_10, Auxilium_10, BenchScraper_10, BillyTP_10, CookieBear_10, EvePickles_10, Faja_10, Globfish_10, Gorpy_10, Hestia_10, Hillester_10, Isolde_11, MidnightRain_10, Persistence_9, RadFad_10, Raphaella_10, Richie_10, Sakai_10, Sashimi_11, Seahorse_11, Tiff81_11,

Genes that have the "Most Annotated" start but do not call it:
• Phrank15_10, YoungHarleezy_10,

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

**Summary by start number:**

Start 1:
• Found in 24 of 24 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 13 of 13
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Aikyam_10 (AY), Anekin_10 (AY), Auxilium_10 (AY), BenchScraper_10 (AY), BillyTP_10 (AY), CookieBear_10 (AY), EvePickles_10 (AY), Faja_10 (AY), Globfish_10 (AY), Gorpy_10 (AY), Hestia_10 (AY), Hillester_10 (AY), Isolde_11 (AY), MidnightRain_10 (AY), Persistence_9 (AY), RadFad_10 (AY), Raphaella_10 (AY), Richie_10 (AY), Sakai_10 (AY), Sashimi_11 (AY), Seahorse_11 (AY), Tiff81_11 (AY),

Start 6:
• Found in 14 of 24 ( 58.3% ) of genes in pham
• No Manual Annotations of this start.
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Phrank15_10 (AY), YoungHarleezy_10 (AY),

**Summary by clusters:**

There is one cluster represented in this pham: AY

Info for manual annotations of cluster AY:
•Start number 1 was manually annotated 13 times for cluster AY.

***Gene Information:***

Gene: Aikyam_10 Start: 7296, Stop: 7652, Start Num: 1
Candidate Starts for Aikyam_10:
(Start: 1 @7296 has 13 MA's), (6, 7365), (8, 7395), (9, 7401), (13, 7458), (15, 7467), (21, 7596), (24, 7638),

Gene: Anekin_10 Start: 7408, Stop: 7764, Start Num: 1
Candidate Starts for Anekin_10:
(Start: 1 @7408 has 13 MA's), (5, 7435), (8, 7507), (11, 7558), (14, 7573), (15, 7579), (16, 7594), (24, 7750),

Gene: Auxilium_10 Start: 7295, Stop: 7651, Start Num: 1
Candidate Starts for Auxilium_10:
(Start: 1 @7295 has 13 MA's), (8, 7394), (9, 7400), (15, 7466), (21, 7595), (23, 7610), (24, 7637),

Gene: BenchScraper_10 Start: 7310, Stop: 7666, Start Num: 1
Candidate Starts for BenchScraper_10:
(Start: 1 @7310 has 13 MA's), (6, 7379), (8, 7409), (9, 7415), (13, 7472), (15, 7481), (21, 7610), (24, 7652),

Gene: BillyTP_10 Start: 7295, Stop: 7654, Start Num: 1
Candidate Starts for BillyTP_10:
(Start: 1 @7295 has 13 MA's), (6, 7364), (10, 7412), (15, 7466), (18, 7565), (24, 7640),

Gene: CookieBear_10 Start: 7295, Stop: 7651, Start Num: 1

Candidate Starts for CookieBear_10:
(Start: 1 @7295 has 13 MA's), (8, 7394), (9, 7400), (15, 7466), (21, 7595), (23, 7610), (24, 7637),

Gene: EvePickles_10 Start: 7351, Stop: 7707, Start Num: 1
Candidate Starts for EvePickles_10:
(Start: 1 @7351 has 13 MA's), (6, 7420), (9, 7456), (11, 7501), (14, 7516), (15, 7522), (20, 7636), (24, 7693),

Gene: Faja_10 Start: 7295, Stop: 7651, Start Num: 1
Candidate Starts for Faja_10:
(Start: 1 @7295 has 13 MA's), (6, 7364), (9, 7400), (11, 7445), (14, 7460), (15, 7466), (20, 7580), (24, 7637),

Gene: Globfish_10 Start: 7340, Stop: 7696, Start Num: 1
Candidate Starts for Globfish_10:
(Start: 1 @7340 has 13 MA's), (6, 7409), (7, 7436), (8, 7439), (9, 7445), (13, 7502), (15, 7511), (21, 7640), (24, 7682),

Gene: Gorpy_10 Start: 7304, Stop: 7660, Start Num: 1
Candidate Starts for Gorpy_10:
(Start: 1 @7304 has 13 MA's), (6, 7373), (8, 7403), (9, 7409), (13, 7466), (15, 7475), (21, 7604), (24, 7646),

Gene: Hestia_10 Start: 7405, Stop: 7764, Start Num: 1
Candidate Starts for Hestia_10:
(Start: 1 @7405 has 13 MA's), (5, 7432), (8, 7504), (12, 7564), (15, 7576), (18, 7675), (19, 7690), (24, 7750),

Gene: Hillester_10 Start: 7292, Stop: 7648, Start Num: 1
Candidate Starts for Hillester_10:
(Start: 1 @7292 has 13 MA's), (2, 7298), (3, 7304), (4, 7307), (6, 7361), (7, 7388), (8, 7391), (12, 7451), (13, 7454), (15, 7463), (21, 7592), (23, 7607), (24, 7634),

Gene: Isolde_11 Start: 7366, Stop: 7722, Start Num: 1
Candidate Starts for Isolde_11:
(Start: 1 @7366 has 13 MA's), (8, 7465), (9, 7471), (15, 7537), (21, 7666), (24, 7708),

Gene: MidnightRain_10 Start: 7292, Stop: 7648, Start Num: 1
Candidate Starts for MidnightRain_10:
(Start: 1 @7292 has 13 MA's), (2, 7298), (3, 7304), (4, 7307), (6, 7361), (7, 7388), (8, 7391), (12, 7451), (13, 7454), (15, 7463), (21, 7592), (23, 7607), (24, 7634),

Gene: Persistence_9 Start: 7363, Stop: 7719, Start Num: 1
Candidate Starts for Persistence_9:
(Start: 1 @7363 has 13 MA's), (2, 7369), (3, 7375), (4, 7378), (7, 7459), (11, 7513), (14, 7528), (15, 7534), (23, 7678), (24, 7705),

Gene: Phrank15_10 Start: 7517, Stop: 7804, Start Num: 6
Candidate Starts for Phrank15_10:
(Start: 1 @7448 has 13 MA's), (6, 7517), (8, 7547), (9, 7553), (13, 7610), (15, 7619), (21, 7748), (24, 7790),

Gene: RadFad_10 Start: 7292, Stop: 7648, Start Num: 1

Candidate Starts for RadFad_10:
(Start: 1 @7292 has 13 MA's), (2, 7298), (3, 7304), (4, 7307), (6, 7361), (7, 7388), (8, 7391), (12, 7451), (13, 7454), (15, 7463), (21, 7592), (23, 7607), (24, 7634),

Gene: Raphaella_10 Start: 7295, Stop: 7651, Start Num: 1
Candidate Starts for Raphaella_10:
(Start: 1 @7295 has 13 MA's), (8, 7394), (9, 7400), (15, 7466), (21, 7595), (23, 7610), (24, 7637),

Gene: Richie_10 Start: 7310, Stop: 7666, Start Num: 1
Candidate Starts for Richie_10:
(Start: 1 @7310 has 13 MA's), (6, 7379), (8, 7409), (9, 7415), (13, 7472), (15, 7481), (21, 7610), (24, 7652),

Gene: Sakai_10 Start: 7304, Stop: 7660, Start Num: 1
Candidate Starts for Sakai_10:
(Start: 1 @7304 has 13 MA's), (6, 7373), (8, 7403), (9, 7409), (13, 7466), (15, 7475), (21, 7604), (24, 7646),

Gene: Sashimi_11 Start: 7410, Stop: 7766, Start Num: 1
Candidate Starts for Sashimi_11:
(Start: 1 @7410 has 13 MA's), (5, 7437), (9, 7515), (13, 7572), (15, 7581), (17, 7662), (21, 7710), (22, 7716), (23, 7725), (24, 7752),

Gene: Seahorse_11 Start: 7514, Stop: 7873, Start Num: 1
Candidate Starts for Seahorse_11:
(Start: 1 @7514 has 13 MA's), (5, 7541), (8, 7613), (12, 7673), (15, 7685), (18, 7784), (19, 7799), (24, 7859),

Gene: Tiff81_11 Start: 7472, Stop: 7831, Start Num: 1
Candidate Starts for Tiff81_11:
(Start: 1 @7472 has 13 MA's), (3, 7484), (4, 7487), (5, 7499), (12, 7631), (15, 7643), (18, 7742), (19, 7757), (22, 7784), (24, 7817),

Gene: YoungHarleezy_10 Start: 7377, Stop: 7664, Start Num: 6
Candidate Starts for YoungHarleezy_10:
(Start: 1 @7308 has 13 MA's), (6, 7377), (8, 7407), (9, 7413), (13, 7470), (15, 7479), (21, 7608), (24, 7650),