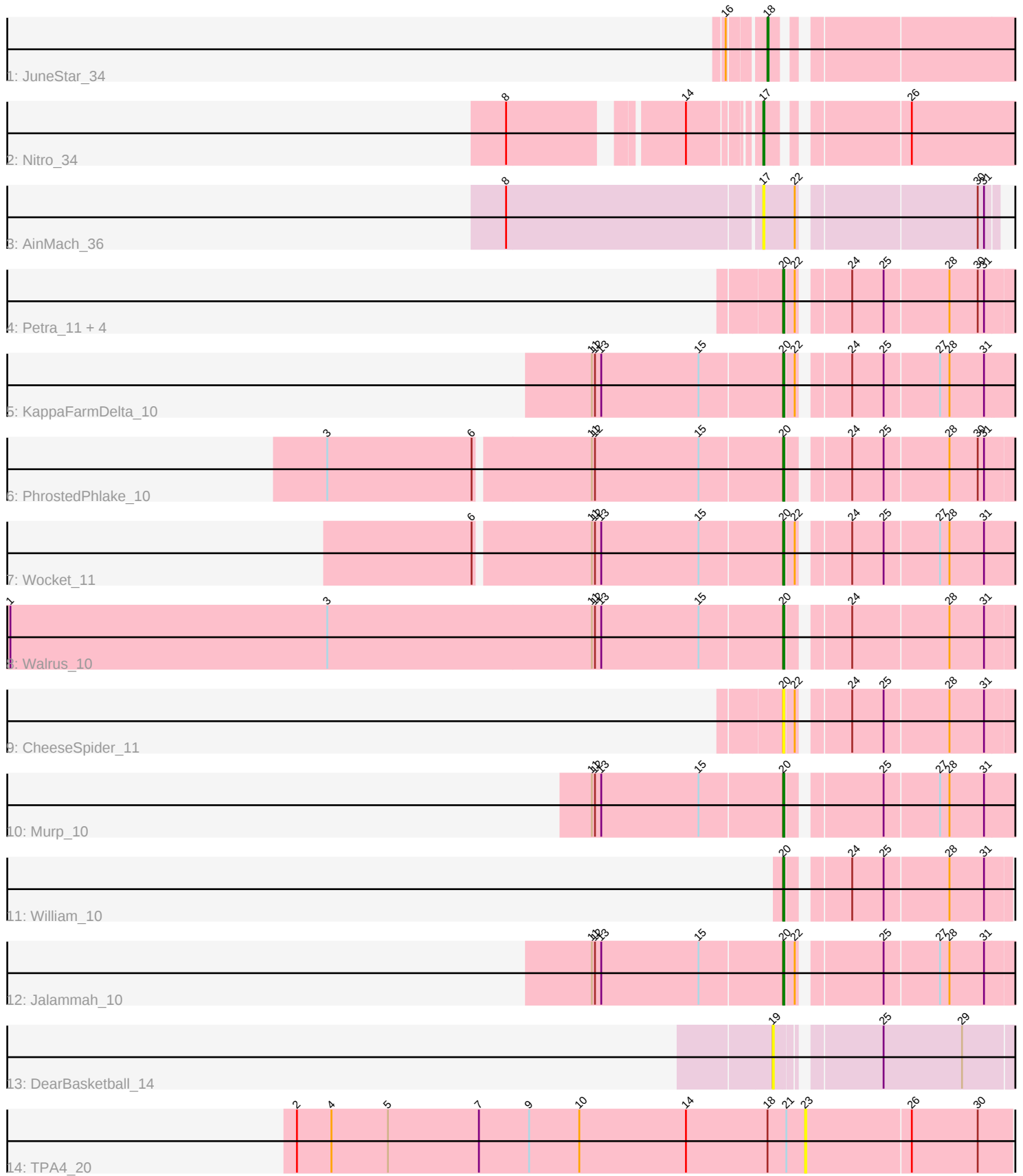


Pham 309406



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 309406 Report

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

Pham number 309406 has 18 members, 4 are drafts.

Phages represented in each track:

- Track 1 : JuneStar_34
- Track 2 : Nitro_34
- Track 3 : AinMach_36
- Track 4 : Petra_11, Gambino_11, Azula_11, Blueberry_11, MissRona_11
- Track 5 : KappaFarmDelta_10
- Track 6 : PhrostedPhlake_10
- Track 7 : Wocket_11
- Track 8 : Walrus_10
- Track 9 : CheeseSpider_11
- Track 10 : Murp_10
- Track 11 : William_10
- Track 12 : Jalammah_10
- Track 13 : DearBasketball_14
- Track 14 : TPA4_20

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 12 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Azula_11, Blueberry_11, CheeseSpider_11, Gambino_11, Jalammah_10, KappaFarmDelta_10, MissRona_11, Murp_10, Petra_11, PhrostedPhlake_10, Walrus_10, William_10, Wocket_11,

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

-

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

- AinMach_36, DearBasketball_14, JuneStar_34, Nitro_34, TPA4_20,

Summary by start number:

Start 17:

- Found in 2 of 18 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AinMach_36 (AZ7), Nitro_34 (AZ1),

Start 18:

- Found in 2 of 18 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 50.0% of time when present
- Phage (with cluster) where this start called: JuneStar_34 (AZ1),

Start 19:

- Found in 1 of 18 (5.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DearBasketball_14 (DY),

Start 20:

- Found in 13 of 18 (72.2%) of genes in pham
- Manual Annotations of this start: 12 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azula_11 (CV), Blueberry_11 (CV), CheeseSpider_11 (CV), Gambino_11 (CV), Jalammah_10 (CV), KappaFarmDelta_10 (CV), MissRona_11 (CV), Murp_10 (CV), Petra_11 (CV), PhrostedPhlake_10 (CV), Walrus_10 (CV), William_10 (CV), Wocket_11 (CV),

Start 23:

- Found in 1 of 18 (5.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TPA4_20 (singleton),

Summary by clusters:

There are 5 clusters represented in this pham: AZ1, singleton, AZ7, CV, DY,

Info for manual annotations of cluster AZ1:

- Start number 17 was manually annotated 1 time for cluster AZ1.
- Start number 18 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster CV:

- Start number 20 was manually annotated 12 times for cluster CV.

Gene Information:

Gene: AinMach_36 Start: 25836, Stop: 26039, Start Num: 17

Candidate Starts for AinMach_36:

(8, 25599), (Start: 17 @25836 has 1 MA's), (22, 25866), (30, 26022), (31, 26028),

Gene: Azula_11 Start: 7396, Stop: 7596, Start Num: 20

Candidate Starts for Azula_11:

(Start: 20 @7396 has 12 MA's), (22, 7405), (24, 7444), (25, 7474), (28, 7534), (30, 7561), (31, 7567),

Gene: Blueberry_11 Start: 7396, Stop: 7596, Start Num: 20

Candidate Starts for Blueberry_11:

(Start: 20 @7396 has 12 MA's), (22, 7405), (24, 7444), (25, 7474), (28, 7534), (30, 7561), (31, 7567),

Gene: CheeseSpider_11 Start: 7399, Stop: 7599, Start Num: 20

Candidate Starts for CheeseSpider_11:

(Start: 20 @7399 has 12 MA's), (22, 7408), (24, 7447), (25, 7477), (28, 7537), (31, 7570),

Gene: DearBasketball_14 Start: 8609, Stop: 8818, Start Num: 19

Candidate Starts for DearBasketball_14:

(19, 8609), (25, 8693), (29, 8768),

Gene: Gambino_11 Start: 7396, Stop: 7596, Start Num: 20

Candidate Starts for Gambino_11:

(Start: 20 @7396 has 12 MA's), (22, 7405), (24, 7444), (25, 7474), (28, 7534), (30, 7561), (31, 7567),

Gene: Jalammah_10 Start: 7330, Stop: 7530, Start Num: 20

Candidate Starts for Jalammah_10:

(11, 7150), (12, 7153), (13, 7159), (15, 7252), (Start: 20 @7330 has 12 MA's), (22, 7339), (25, 7408), (27, 7459), (28, 7468), (31, 7501),

Gene: JuneStar_34 Start: 27010, Stop: 27216, Start Num: 18

Candidate Starts for JuneStar_34:

(16, 26980), (Start: 18 @27010 has 1 MA's),

Gene: KappaFarmDelta_10 Start: 7368, Stop: 7577, Start Num: 20

Candidate Starts for KappaFarmDelta_10:

(11, 7188), (12, 7191), (13, 7197), (15, 7290), (Start: 20 @7368 has 12 MA's), (22, 7377), (24, 7416), (25, 7446), (27, 7497), (28, 7506), (31, 7539),

Gene: MissRona_11 Start: 7396, Stop: 7596, Start Num: 20

Candidate Starts for MissRona_11:

(Start: 20 @7396 has 12 MA's), (22, 7405), (24, 7444), (25, 7474), (28, 7534), (30, 7561), (31, 7567),

Gene: Murp_10 Start: 7371, Stop: 7577, Start Num: 20

Candidate Starts for Murp_10:

(11, 7191), (12, 7194), (13, 7200), (15, 7293), (Start: 20 @7371 has 12 MA's), (25, 7449), (27, 7500), (28, 7509), (31, 7542),

Gene: Nitro_34 Start: 26183, Stop: 26392, Start Num: 17

Candidate Starts for Nitro_34:

(8, 25982), (14, 26126), (Start: 17 @26183 has 1 MA's), (26, 26294),

Gene: Petra_11 Start: 7429, Stop: 7629, Start Num: 20

Candidate Starts for Petra_11:

(Start: 20 @7429 has 12 MA's), (22, 7438), (24, 7477), (25, 7507), (28, 7567), (30, 7594), (31, 7600),

Gene: PhrostedPhlake_10 Start: 7411, Stop: 7611, Start Num: 20

Candidate Starts for PhrostedPhlake_10:

(3, 6988), (6, 7126), (11, 7231), (12, 7234), (15, 7333), (Start: 20 @7411 has 12 MA's), (24, 7459), (25, 7489), (28, 7549), (30, 7576), (31, 7582),

Gene: TPA4_20 Start: 19528, Stop: 19722, Start Num: 23

Candidate Starts for TPA4_20:

(2, 19042), (4, 19075), (5, 19129), (7, 19216), (9, 19264), (10, 19312), (14, 19414), (Start: 18 @19492 has 1 MA's), (21, 19510), (23, 19528), (26, 19627), (30, 19690),

Gene: Walrus_10 Start: 7251, Stop: 7451, Start Num: 20

Candidate Starts for Walrus_10:

(1, 6516), (3, 6819), (11, 7071), (12, 7074), (13, 7080), (15, 7173), (Start: 20 @7251 has 12 MA's), (24, 7299), (28, 7389), (31, 7422),

Gene: William_10 Start: 7330, Stop: 7524, Start Num: 20

Candidate Starts for William_10:

(Start: 20 @7330 has 12 MA's), (24, 7378), (25, 7408), (28, 7468), (31, 7501),

Gene: Wocket_11 Start: 7607, Stop: 7813, Start Num: 20

Candidate Starts for Wocket_11:

(6, 7322), (11, 7427), (12, 7430), (13, 7436), (15, 7529), (Start: 20 @7607 has 12 MA's), (22, 7616), (24, 7655), (25, 7685), (27, 7736), (28, 7745), (31, 7778),