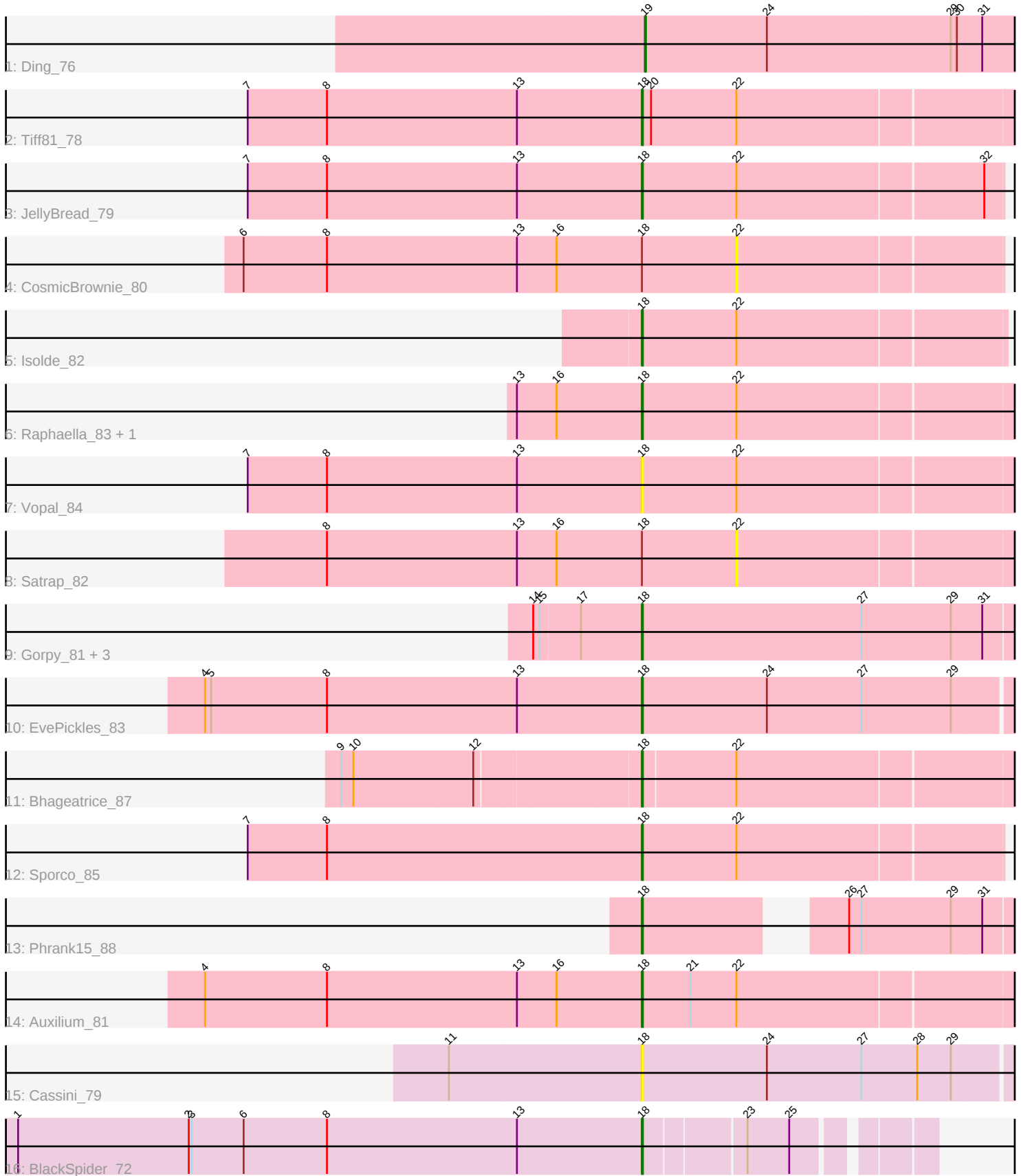


Pham 331258



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 331258 Report

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

Pham number 331258 has 20 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Ding_76
- Track 2 : Tiff81_78
- Track 3 : JellyBread_79
- Track 4 : CosmicBrownie_80
- Track 5 : Isolde_82
- Track 6 : Raphaella_83, Faja_85
- Track 7 : Vopal_84
- Track 8 : Satrap_82
- Track 9 : Gorpy_81, SonDevVon_91, Sakai_80, CookieBear_82
- Track 10 : EvePickles_83
- Track 11 : Bhageatrice_87
- Track 12 : Sporco_85
- Track 13 : Phrank15_88
- Track 14 : Auxilium_81
- Track 15 : Cassini_79
- Track 16 : BlackSpider_72

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

The start number called the most often in the published annotations is 18, it was called in 14 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Auxilium_81, Bhageatrice_87, BlackSpider_72, Cassini_79, CookieBear_82, EvePickles_83, Faja_85, Gorpy_81, Isolde_82, JellyBread_79, Phrank15_88, Raphaella_83, Sakai_80, SonDevVon_91, Sporco_85, Tiff81_78, Vopal_84,

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

- CosmicBrownie_80, Satrap_82,

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

- Ding_76,

Summary by start number:

Start 18:

- Found in 19 of 20 (95.0%) of genes in pham
- Manual Annotations of this start: 14 of 15
- Called 89.5% of time when present
- Phage (with cluster) where this start called: Auxilium_81 (AY), Bhageatrice_87 (AY), BlackSpider_72 (FN), Cassini_79 (FN), CookieBear_82 (AY), EvePickles_83 (AY), Faja_85 (AY), Gorpy_81 (AY), Isolde_82 (AY), JellyBread_79 (AY), Phrank15_88 (AY), Raphaella_83 (AY), Sakai_80 (AY), SonDevVon_91 (AY), Sporco_85 (AY), Tiff81_78 (AY), Vopal_84 (AY),

Start 19:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ding_76 (AY),

Start 22:

- Found in 11 of 20 (55.0%) of genes in pham
- No Manual Annotations of this start.
- Called 18.2% of time when present
- Phage (with cluster) where this start called: CosmicBrownie_80 (AY), Satrap_82 (AY),

Summary by clusters:

There are 2 clusters represented in this pham: AY, FN,

Info for manual annotations of cluster AY:

- Start number 18 was manually annotated 13 times for cluster AY.
- Start number 19 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FN:

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

Gene Information:

Gene: Auxilium_81 Start: 45001, Stop: 45360, Start Num: 18

Candidate Starts for Auxilium_81:

(4, 44572), (8, 44692), (13, 44878), (16, 44917), (Start: 18 @45001 has 14 MA's), (21, 45049), (22, 45094),

Gene: Bhageatrice_87 Start: 50237, Stop: 50593, Start Num: 18

Candidate Starts for Bhageatrice_87:

(9, 49952), (10, 49964), (12, 50081), (Start: 18 @50237 has 14 MA's), (22, 50327),

Gene: BlackSpider_72 Start: 44405, Stop: 44656, Start Num: 18

Candidate Starts for BlackSpider_72:

(1, 43796), (2, 43964), (3, 43967), (6, 44018), (8, 44099), (13, 44285), (Start: 18 @44405 has 14 MA's), (23, 44498), (25, 44537),

Gene: Cassini_79 Start: 46271, Stop: 46672, Start Num: 18

Candidate Starts for Cassini_79:

(11, 46082), (Start: 18 @46271 has 14 MA's), (24, 46394), (27, 46487), (28, 46541), (29, 46574),

Gene: CookieBear_82 Start: 46578, Stop: 46994, Start Num: 18

Candidate Starts for CookieBear_82:

(14, 46473), (15, 46479), (17, 46518), (Start: 18 @46578 has 14 MA's), (27, 46794), (29, 46881), (31, 46911),

Gene: CosmicBrownie_80 Start: 45811, Stop: 46065, Start Num: 22

Candidate Starts for CosmicBrownie_80:

(6, 45328), (8, 45409), (13, 45595), (16, 45634), (Start: 18 @45718 has 14 MA's), (22, 45811),

Gene: Ding_76 Start: 46525, Stop: 46929, Start Num: 19

Candidate Starts for Ding_76:

(Start: 19 @46525 has 1 MA's), (24, 46645), (29, 46825), (30, 46831), (31, 46855),

Gene: EvePickles_83 Start: 48170, Stop: 48571, Start Num: 18

Candidate Starts for EvePickles_83:

(4, 47741), (5, 47747), (8, 47861), (13, 48047), (Start: 18 @48170 has 14 MA's), (24, 48293), (27, 48386), (29, 48473),

Gene: Faja_85 Start: 48003, Stop: 48362, Start Num: 18

Candidate Starts for Faja_85:

(13, 47880), (16, 47919), (Start: 18 @48003 has 14 MA's), (22, 48096),

Gene: Gorpy_81 Start: 47920, Stop: 48336, Start Num: 18

Candidate Starts for Gorpy_81:

(14, 47815), (15, 47821), (17, 47860), (Start: 18 @47920 has 14 MA's), (27, 48136), (29, 48223), (31, 48253),

Gene: Isolde_82 Start: 47475, Stop: 47825, Start Num: 18

Candidate Starts for Isolde_82:

(Start: 18 @47475 has 14 MA's), (22, 47568),

Gene: JellyBread_79 Start: 46390, Stop: 46737, Start Num: 18

Candidate Starts for JellyBread_79:

(7, 46003), (8, 46081), (13, 46267), (Start: 18 @46390 has 14 MA's), (22, 46483), (32, 46720),

Gene: Phrank15_88 Start: 47981, Stop: 48337, Start Num: 18

Candidate Starts for Phrank15_88:

(Start: 18 @47981 has 14 MA's), (26, 48137), (27, 48149), (29, 48236), (31, 48266),

Gene: Raphaella_83 Start: 46297, Stop: 46656, Start Num: 18

Candidate Starts for Raphaella_83:

(13, 46174), (16, 46213), (Start: 18 @46297 has 14 MA's), (22, 46390),

Gene: Sakai_80 Start: 46631, Stop: 47047, Start Num: 18

Candidate Starts for Sakai_80:

(14, 46526), (15, 46532), (17, 46571), (Start: 18 @46631 has 14 MA's), (27, 46847), (29, 46934), (31, 46964),

Gene: Satrap_82 Start: 46928, Stop: 47194, Start Num: 22

Candidate Starts for Satrap_82:

(8, 46526), (13, 46712), (16, 46751), (Start: 18 @46835 has 14 MA's), (22, 46928),

Gene: SonDevVon_91 Start: 47576, Stop: 47992, Start Num: 18

Candidate Starts for SonDevVon_91:

(14, 47471), (15, 47477), (17, 47516), (Start: 18 @47576 has 14 MA's), (27, 47792), (29, 47879), (31, 47909),

Gene: Sporco_85 Start: 47977, Stop: 48324, Start Num: 18

Candidate Starts for Sporco_85:

(7, 47590), (8, 47668), (Start: 18 @47977 has 14 MA's), (22, 48070),

Gene: Tiff81_78 Start: 45438, Stop: 45797, Start Num: 18

Candidate Starts for Tiff81_78:

(7, 45051), (8, 45129), (13, 45315), (Start: 18 @45438 has 14 MA's), (20, 45447), (22, 45531),

Gene: Vopal_84 Start: 48363, Stop: 48722, Start Num: 18

Candidate Starts for Vopal_84:

(7, 47976), (8, 48054), (13, 48240), (Start: 18 @48363 has 14 MA's), (22, 48456),