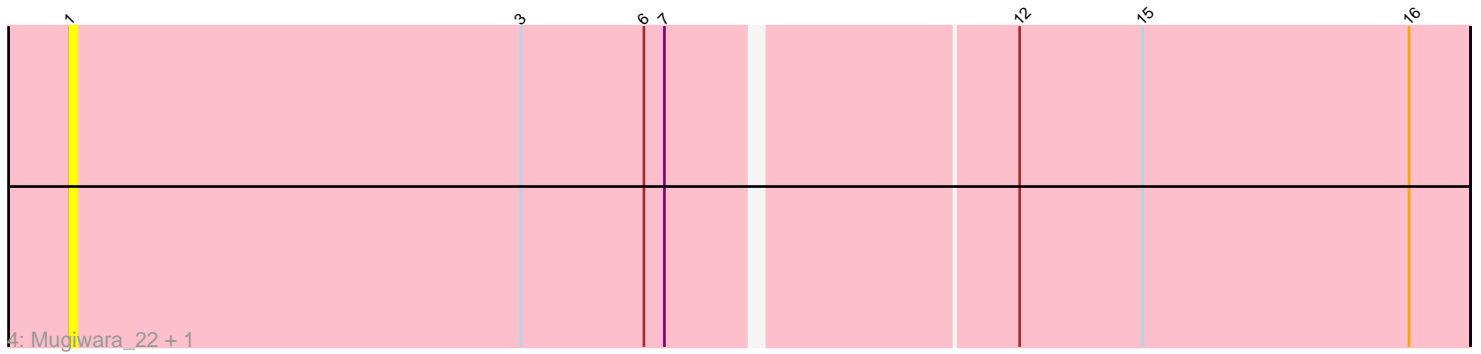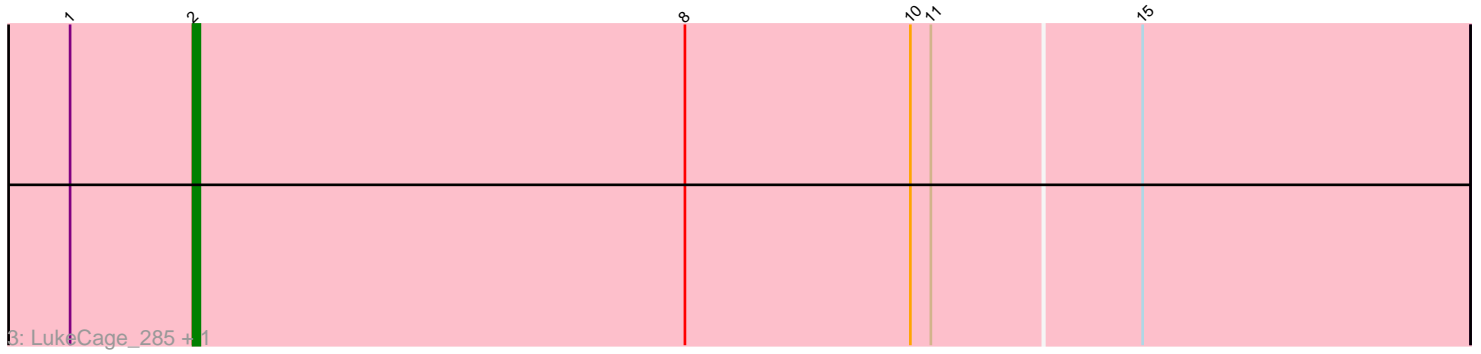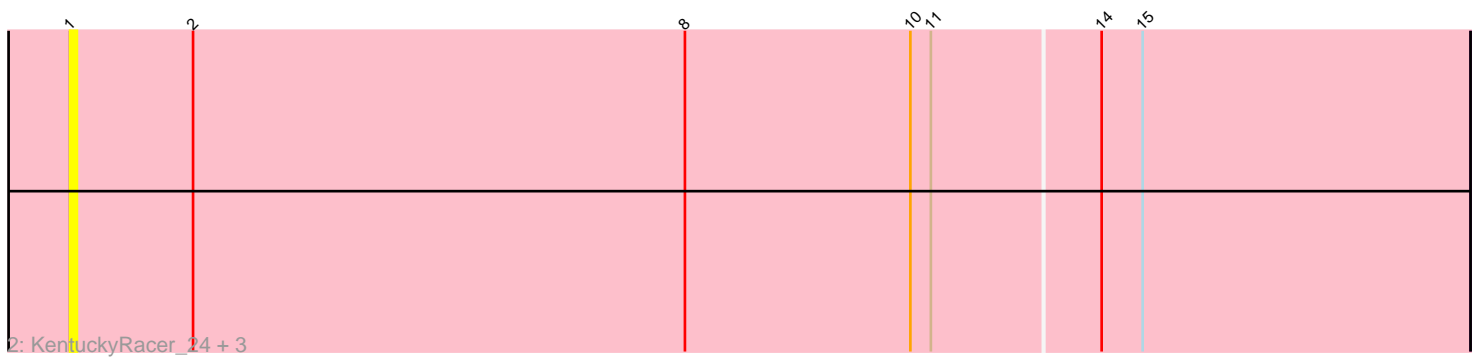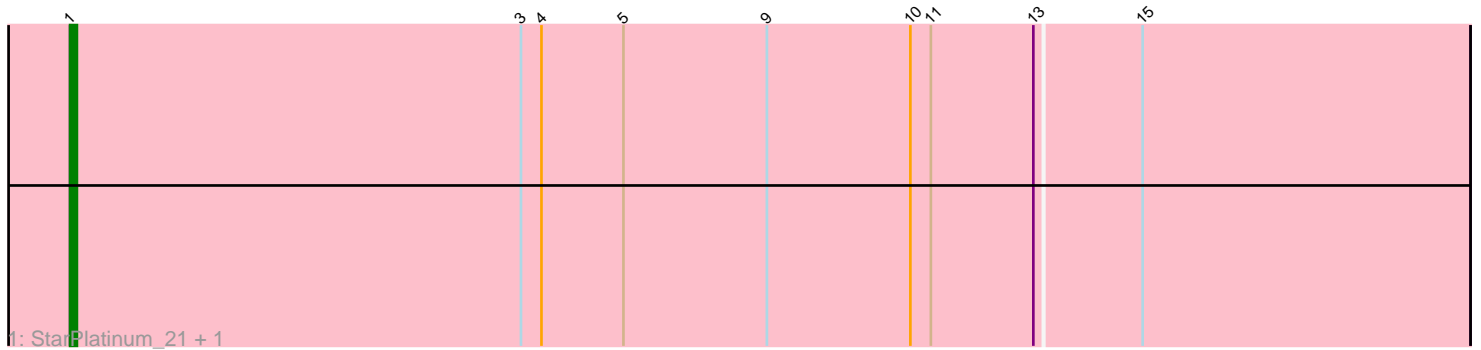# Pham 28484

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 28484 Report

This analysis was run 04/05/24 on database version 557.

Pham number 28484 has 10 members, 6 are drafts.

Phages represented in each track:
• Track 1 : StarPlatinum_21, StarPlatinum_291
• Track 2 : KentuckyRacer_24, CeilingFan_298, KentuckyRacer_298, CeilingFan_24
• Track 3 : LukeCage_285, LukeCage_22
• Track 4 : Mugiwara_22, Mugiwara_294

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 2 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• CeilingFan_24, CeilingFan_298, KentuckyRacer_24, KentuckyRacer_298, Mugiwara_22, Mugiwara_294, StarPlatinum_21, StarPlatinum_291,

Genes that have the "Most Annotated" start but do not call it:
• LukeCage_22, LukeCage_285,

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

Summary by start number:

Start 1:
• Found in 10 of 10 (100.0%) of genes in pham
• Manual Annotations of this start: 2 of 4
• Called 80.0% of time when present
• Phage (with cluster) where this start called: CeilingFan_24 (BE2), CeilingFan_298 (BE2), KentuckyRacer_24 (BE2), KentuckyRacer_298 (BE2), Mugiwara_22 (BE2), Mugiwara_294 (BE2), StarPlatinum_21 (BE2), StarPlatinum_291 (BE2),

Start 2:
• Found in 6 of 10 (60.0%) of genes in pham
• Manual Annotations of this start: 2 of 4
• Called 33.3% of time when present

• Phage (with cluster) where this start called: LukeCage_22 (BE2), LukeCage_285 (BE2),

Summary by clusters:

There is one cluster represented in this pham: BE2

Info for manual annotations of cluster BE2:
•Start number 1 was manually annotated 2 times for cluster BE2.
•Start number 2 was manually annotated 2 times for cluster BE2.

Gene Information:
Gene: CeilingFan_298 Start: 130914, Stop: 130711, Start Num: 1
Candidate Starts for CeilingFan_298:
(Start: 1 @130914 has 2 MA's), (Start: 2 @130896 has 2 MA's), (8, 130824), (10, 130791), (11, 130788), (14, 130764), (15, 130758),

Gene: CeilingFan_24 Start: 10307, Stop: 10104, Start Num: 1
Candidate Starts for CeilingFan_24:
(Start: 1 @10307 has 2 MA's), (Start: 2 @10289 has 2 MA's), (8, 10217), (10, 10184), (11, 10181), (14, 10157), (15, 10151),

Gene: KentuckyRacer_24 Start: 10308, Stop: 10105, Start Num: 1
Candidate Starts for KentuckyRacer_24:
(Start: 1 @10308 has 2 MA's), (Start: 2 @10290 has 2 MA's), (8, 10218), (10, 10185), (11, 10182), (14, 10158), (15, 10152),

Gene: KentuckyRacer_298 Start: 131759, Stop: 131556, Start Num: 1
Candidate Starts for KentuckyRacer_298:
(Start: 1 @131759 has 2 MA's), (Start: 2 @131741 has 2 MA's), (8, 131669), (10, 131636), (11, 131633), (14, 131609), (15, 131603),

Gene: LukeCage_285 Start: 131146, Stop: 130961, Start Num: 2
Candidate Starts for LukeCage_285:
(Start: 1 @131164 has 2 MA's), (Start: 2 @131146 has 2 MA's), (8, 131074), (10, 131041), (11, 131038), (15, 131008),

Gene: LukeCage_22 Start: 10242, Stop: 10057, Start Num: 2
Candidate Starts for LukeCage_22:
(Start: 1 @10260 has 2 MA's), (Start: 2 @10242 has 2 MA's), (8, 10170), (10, 10137), (11, 10134), (15, 10104),

Gene: Mugiwara_22 Start: 9906, Stop: 9706, Start Num: 1
Candidate Starts for Mugiwara_22:
(Start: 1 @9906 has 2 MA's), (3, 9840), (6, 9822), (7, 9819), (12, 9771), (15, 9753), (16, 9714),

Gene: Mugiwara_294 Start: 131291, Stop: 131091, Start Num: 1
Candidate Starts for Mugiwara_294:
(Start: 1 @131291 has 2 MA's), (3, 131225), (6, 131207), (7, 131204), (12, 131156), (15, 131138), (16, 131099),

Gene: StarPlatinum_21 Start: 10165, Stop: 9962, Start Num: 1
Candidate Starts for StarPlatinum_21:
(Start: 1 @10165 has 2 MA's), (3, 10099), (4, 10096), (5, 10084), (9, 10063), (10, 10042), (11, 10039), (13, 10024), (15, 10009),

Gene: StarPlatinum_291 Start: 131852, Stop: 131649, Start Num: 1
Candidate Starts for StarPlatinum_291:
(Start: 1 @131852 has 2 MA's), (3, 131786), (4, 131783), (5, 131771), (9, 131750), (10, 131729), (11, 131726), (13, 131711), (15, 131696),