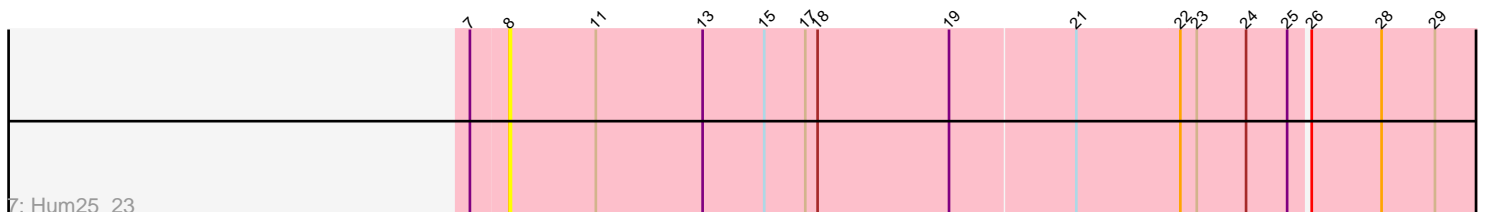
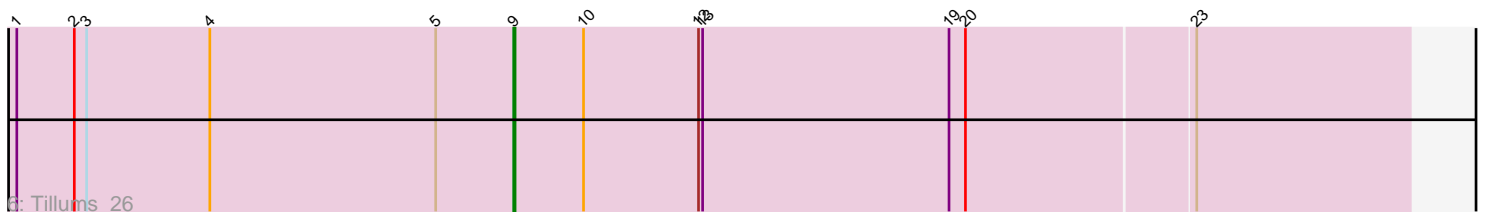
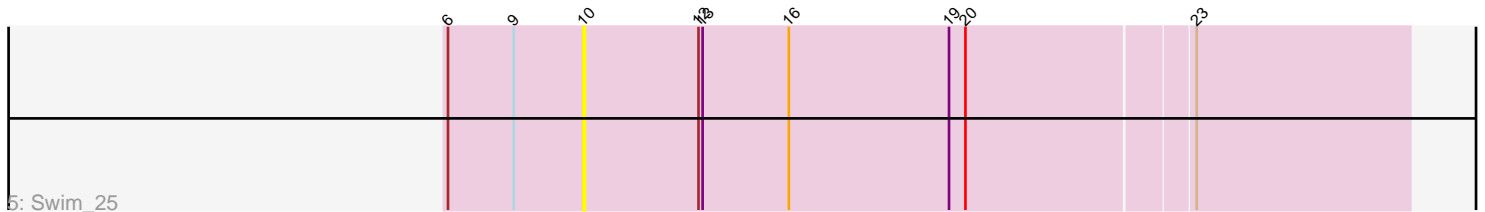
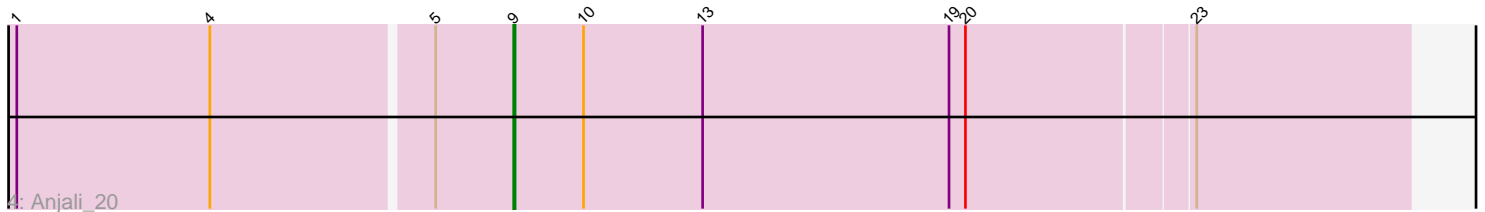
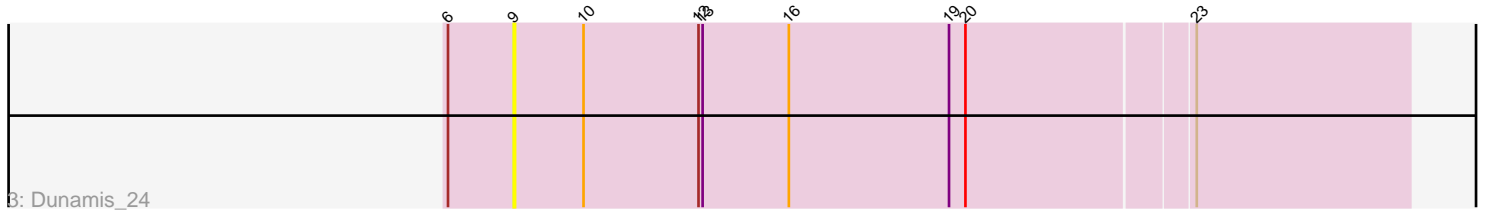
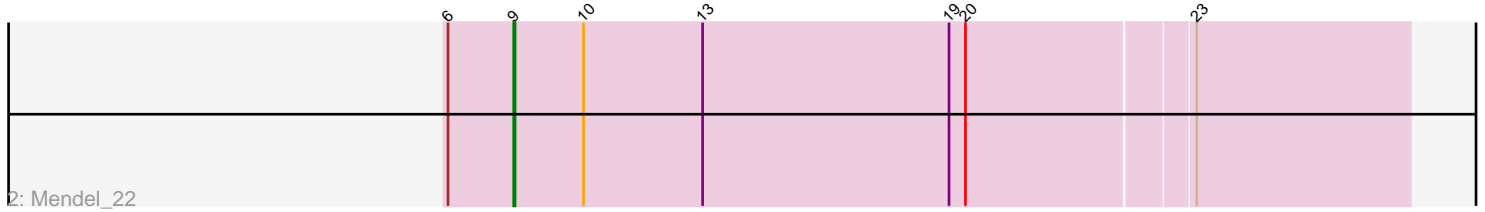
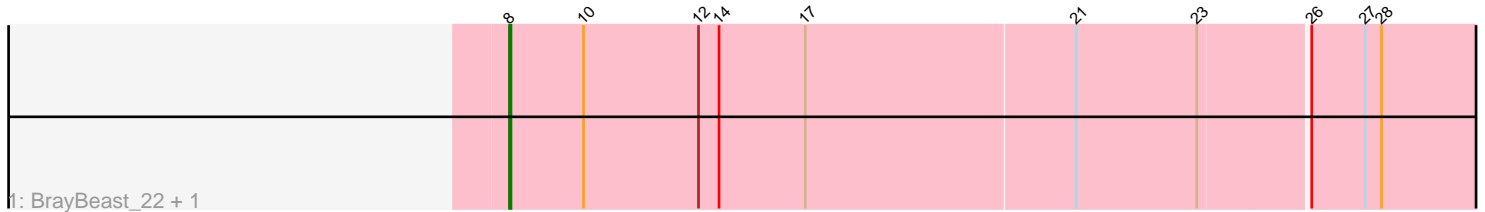


Pham 158416



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 158416 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158416 has 8 members, 3 are drafts.

Phages represented in each track:

- Track 1 : BrayBeast_22, Sarge_22
- Track 2 : Mendel_22
- Track 3 : Dunamis_24
- Track 4 : Anjali_20
- Track 5 : Swim_25
- Track 6 : Tillums_26
- Track 7 : Hum25_23

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

The start number called the most often in the published annotations is 9, it was called in 3 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anjali_20, Dunamis_24, Mendel_22, Tillums_26,

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

- Swim_25,

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

- BrayBeast_22, Hum25_23, Sarge_22,

Summary by start number:

Start 8:

- Found in 3 of 8 (37.5%) of genes in pham
- Manual Annotations of this start: 2 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrayBeast_22 (FB), Hum25_23 (FQ), Sarge_22 (FB),

Start 9:

- Found in 5 of 8 (62.5%) of genes in pham
- Manual Annotations of this start: 3 of 5

- Called 80.0% of time when present
- Phage (with cluster) where this start called: Anjali_20 (FD), Dunamis_24 (FD), Mendel_22 (FD), Tillums_26 (FD),

Start 10:

- Found in 7 of 8 (87.5%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Swim_25 (FD),

Summary by clusters:

There are 3 clusters represented in this pham: FQ, FB, FD,

Info for manual annotations of cluster FB:

- Start number 8 was manually annotated 2 times for cluster FB.

Info for manual annotations of cluster FD:

- Start number 9 was manually annotated 3 times for cluster FD.

Gene Information:

Gene: Anjali_20 Start: 15722, Stop: 16366, Start Num: 9

Candidate Starts for Anjali_20:

(1, 15368), (4, 15509), (5, 15665), (Start: 9 @15722 has 3 MA's), (10, 15773), (13, 15860), (19, 16040), (20, 16052), (23, 16211),

Gene: BrayBeast_22 Start: 17377, Stop: 18099, Start Num: 8

Candidate Starts for BrayBeast_22:

(Start: 8 @17377 has 2 MA's), (10, 17431), (12, 17515), (14, 17530), (17, 17593), (21, 17788), (23, 17875), (26, 17950), (27, 17989), (28, 18001),

Gene: Dunamis_24 Start: 15879, Stop: 16523, Start Num: 9

Candidate Starts for Dunamis_24:

(6, 15831), (Start: 9 @15879 has 3 MA's), (10, 15930), (12, 16014), (13, 16017), (16, 16080), (19, 16197), (20, 16209), (23, 16368),

Gene: Hum25_23 Start: 17016, Stop: 17738, Start Num: 8

Candidate Starts for Hum25_23:

(7, 16989), (Start: 8 @17016 has 2 MA's), (11, 17079), (13, 17157), (15, 17202), (17, 17232), (18, 17241), (19, 17337), (21, 17427), (22, 17502), (23, 17514), (24, 17550), (25, 17580), (26, 17592), (28, 17643), (29, 17682),

Gene: Mendel_22 Start: 15637, Stop: 16281, Start Num: 9

Candidate Starts for Mendel_22:

(6, 15589), (Start: 9 @15637 has 3 MA's), (10, 15688), (13, 15775), (19, 15955), (20, 15967), (23, 16126),

Gene: Sarge_22 Start: 17291, Stop: 18013, Start Num: 8

Candidate Starts for Sarge_22:

(Start: 8 @17291 has 2 MA's), (10, 17345), (12, 17429), (14, 17444), (17, 17507), (21, 17702), (23, 17789), (26, 17864), (27, 17903), (28, 17915),

Gene: Swim_25 Start: 16187, Stop: 16780, Start Num: 10

Candidate Starts for Swim_25:

(6, 16088), (Start: 9 @16136 has 3 MA's), (10, 16187), (12, 16271), (13, 16274), (16, 16337), (19, 16454), (20, 16466), (23, 16625),

Gene: Tillums_26 Start: 16278, Stop: 16925, Start Num: 9

Candidate Starts for Tillums_26:

(1, 15915), (2, 15957), (3, 15966), (4, 16056), (5, 16221), (Start: 9 @16278 has 3 MA's), (10, 16329), (12, 16413), (13, 16416), (19, 16596), (20, 16608), (23, 16770),