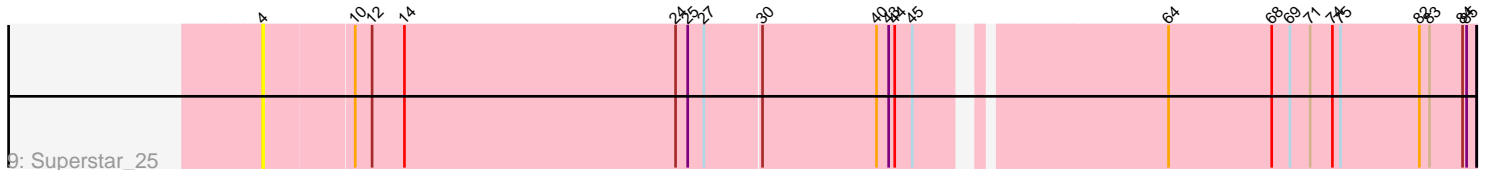
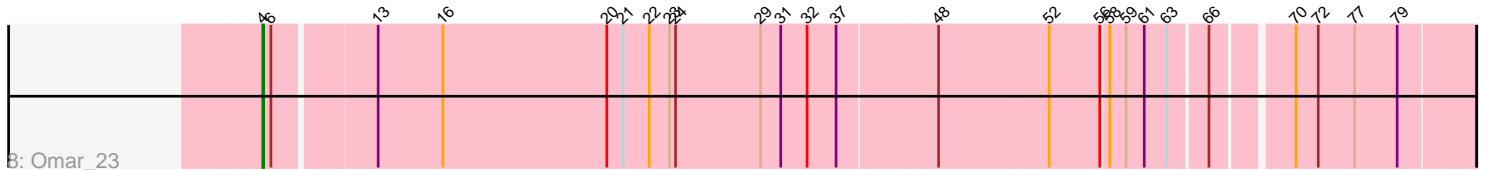
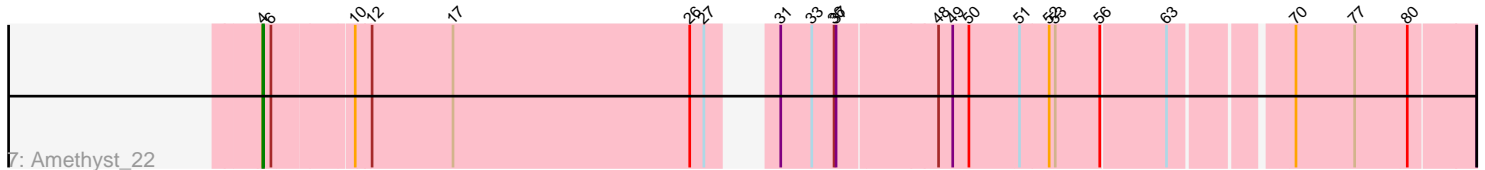
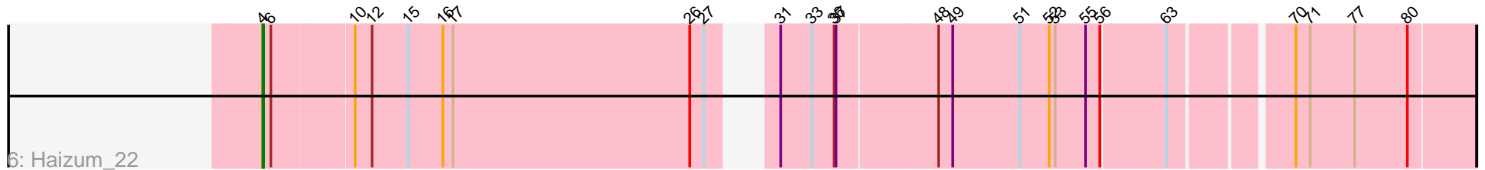
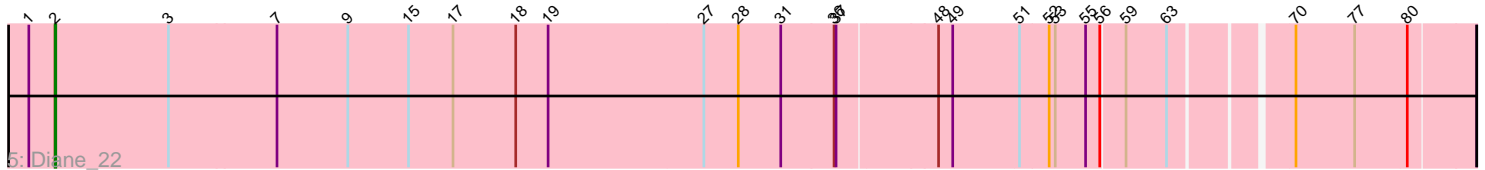
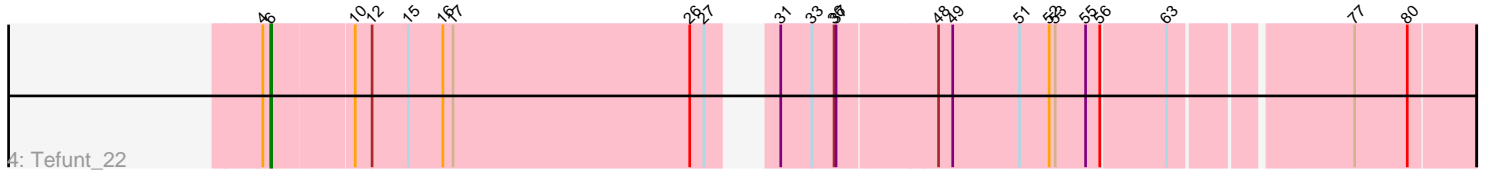
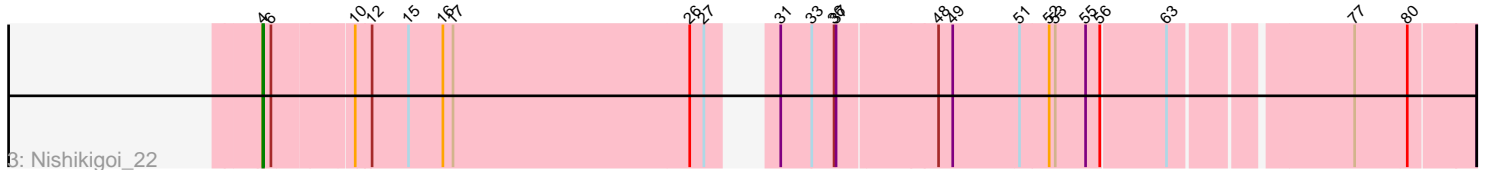
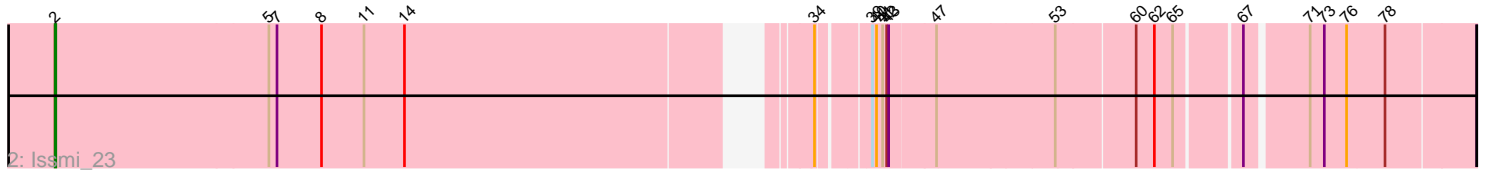
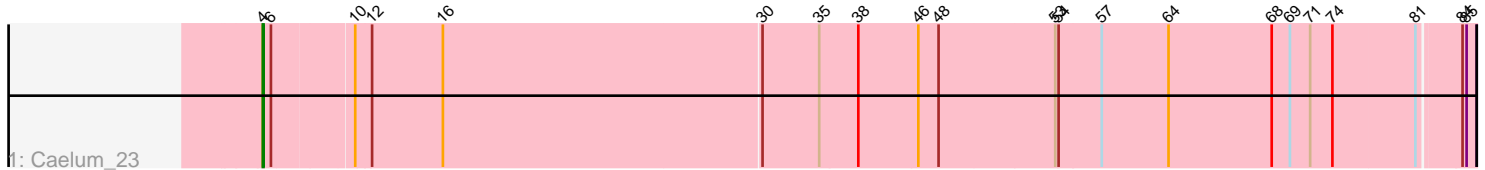


Pham 158385



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 158385 Report

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

Pham number 158385 has 9 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Caelum_23
- Track 2 : Issmi_23
- Track 3 : Nishikigoi_22
- Track 4 : Tefunt_22
- Track 5 : Diane_22
- Track 6 : Haizum_22
- Track 7 : Amethyst_22
- Track 8 : Omar_23
- Track 9 : Superstar_25

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

The start number called the most often in the published annotations is 4, it was called in 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amethyst_22, Caelum_23, Haizum_22, Nishikigoi_22, Omar_23, Superstar_25,

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

- Tefunt_22,

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

- Diane_22, Issmi_23,

Summary by start number:

Start 2:

- Found in 2 of 9 (22.2%) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Diane_22 (BD2), Issmi_23 (BD2),

Start 4:

- Found in 7 of 9 (77.8%) of genes in pham

- Manual Annotations of this start: 5 of 8
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Amethyst_22 (BD2), Caelum_23 (BD2), Haizum_22 (BD2), Nishikigoi_22 (BD2), Omar_23 (BD2), Superstar_25 (BD2),

Start 6:

- Found in 6 of 9 (66.7%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Tefunt_22 (BD2),

Summary by clusters:

There is one cluster represented in this pham: BD2

Info for manual annotations of cluster BD2:

- Start number 2 was manually annotated 2 times for cluster BD2.
- Start number 4 was manually annotated 5 times for cluster BD2.
- Start number 6 was manually annotated 1 time for cluster BD2.

Gene Information:

Gene: Amethyst_22 Start: 17833, Stop: 19476, Start Num: 4

Candidate Starts for Amethyst_22:

(Start: 4 @17833 has 5 MA's), (Start: 6 @17845 has 1 MA's), (10, 17953), (12, 17974), (17, 18094), (26, 18445), (27, 18466), (31, 18514), (33, 18559), (36, 18592), (37, 18595), (48, 18736), (49, 18757), (50, 18781), (51, 18853), (52, 18895), (53, 18904), (56, 18970), (63, 19063), (70, 19219), (77, 19306), (80, 19381),

Gene: Caelum_23 Start: 17860, Stop: 19602, Start Num: 4

Candidate Starts for Caelum_23:

(Start: 4 @17860 has 5 MA's), (Start: 6 @17872 has 1 MA's), (10, 17980), (12, 18001), (16, 18106), (30, 18571), (35, 18655), (38, 18712), (46, 18799), (48, 18829), (53, 18997), (54, 19000), (57, 19063), (64, 19162), (68, 19315), (69, 19342), (71, 19372), (74, 19405), (81, 19525), (84, 19582), (85, 19588),

Gene: Diane_22 Start: 17826, Stop: 19859, Start Num: 2

Candidate Starts for Diane_22:

(1, 17787), (Start: 2 @17826 has 2 MA's), (3, 17994), (7, 18153), (9, 18258), (15, 18348), (17, 18414), (18, 18507), (19, 18555), (27, 18783), (28, 18834), (31, 18897), (36, 18975), (37, 18978), (48, 19119), (49, 19140), (51, 19236), (52, 19278), (53, 19287), (55, 19332), (56, 19353), (59, 19386), (63, 19446), (70, 19602), (77, 19689), (80, 19764),

Gene: Haizum_22 Start: 17858, Stop: 19498, Start Num: 4

Candidate Starts for Haizum_22:

(Start: 4 @17858 has 5 MA's), (Start: 6 @17870 has 1 MA's), (10, 17978), (12, 17999), (15, 18053), (16, 18104), (17, 18119), (26, 18467), (27, 18488), (31, 18536), (33, 18581), (36, 18614), (37, 18617), (48, 18758), (49, 18779), (51, 18875), (52, 18917), (53, 18926), (55, 18971), (56, 18992), (63, 19085), (70, 19241), (71, 19262), (77, 19328), (80, 19403),

Gene: Issmi_23 Start: 18292, Stop: 20220, Start Num: 2

Candidate Starts for Issmi_23:

(Start: 2 @18292 has 2 MA's), (5, 18607), (7, 18619), (8, 18685), (11, 18748), (14, 18808), (34, 19330), (39, 19390), (40, 19396), (41, 19405), (42, 19411), (43, 19414), (47, 19480), (53, 19648), (60, 19759), (62, 19786), (65, 19813), (67, 19900), (71, 19984), (73, 20005), (76, 20038), (78, 20092),

Gene: Nishikigoi_22 Start: 17858, Stop: 19498, Start Num: 4

Candidate Starts for Nishikigoi_22:

(Start: 4 @17858 has 5 MA's), (Start: 6 @17870 has 1 MA's), (10, 17978), (12, 17999), (15, 18053), (16, 18104), (17, 18119), (26, 18467), (27, 18488), (31, 18536), (33, 18581), (36, 18614), (37, 18617), (48, 18758), (49, 18779), (51, 18875), (52, 18917), (53, 18926), (55, 18971), (56, 18992), (63, 19085), (77, 19328), (80, 19403),

Gene: Omar_23 Start: 18196, Stop: 19896, Start Num: 4

Candidate Starts for Omar_23:

(Start: 4 @18196 has 5 MA's), (Start: 6 @18208 has 1 MA's), (13, 18337), (16, 18433), (20, 18676), (21, 18700), (22, 18739), (23, 18769), (24, 18778), (29, 18904), (31, 18934), (32, 18973), (37, 19015), (48, 19156), (52, 19315), (56, 19390), (58, 19399), (59, 19423), (61, 19450), (63, 19483), (66, 19537), (70, 19639), (72, 19672), (77, 19726), (79, 19789),

Gene: Superstar_25 Start: 19064, Stop: 20764, Start Num: 4

Candidate Starts for Superstar_25:

(Start: 4 @19064 has 5 MA's), (10, 19184), (12, 19205), (14, 19253), (24, 19655), (25, 19673), (27, 19697), (30, 19775), (40, 19937), (43, 19955), (44, 19964), (45, 19988), (64, 20312), (68, 20465), (69, 20492), (71, 20522), (74, 20555), (75, 20567), (82, 20681), (83, 20696), (84, 20744), (85, 20750),

Gene: Tefunt_22 Start: 17870, Stop: 19501, Start Num: 6

Candidate Starts for Tefunt_22:

(Start: 4 @17858 has 5 MA's), (Start: 6 @17870 has 1 MA's), (10, 17978), (12, 17999), (15, 18053), (16, 18104), (17, 18119), (26, 18470), (27, 18491), (31, 18539), (33, 18584), (36, 18617), (37, 18620), (48, 18761), (49, 18782), (51, 18878), (52, 18920), (53, 18929), (55, 18974), (56, 18995), (63, 19088), (77, 19331), (80, 19406),