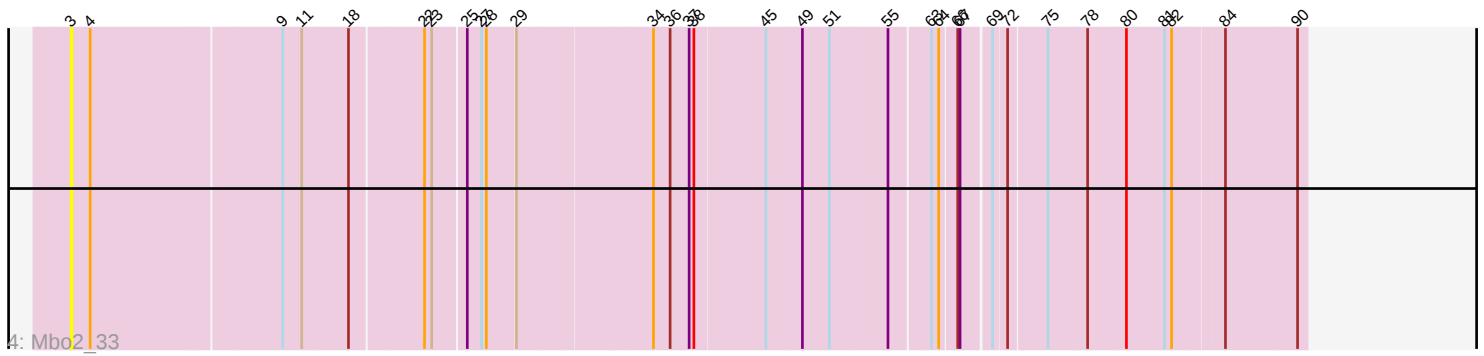
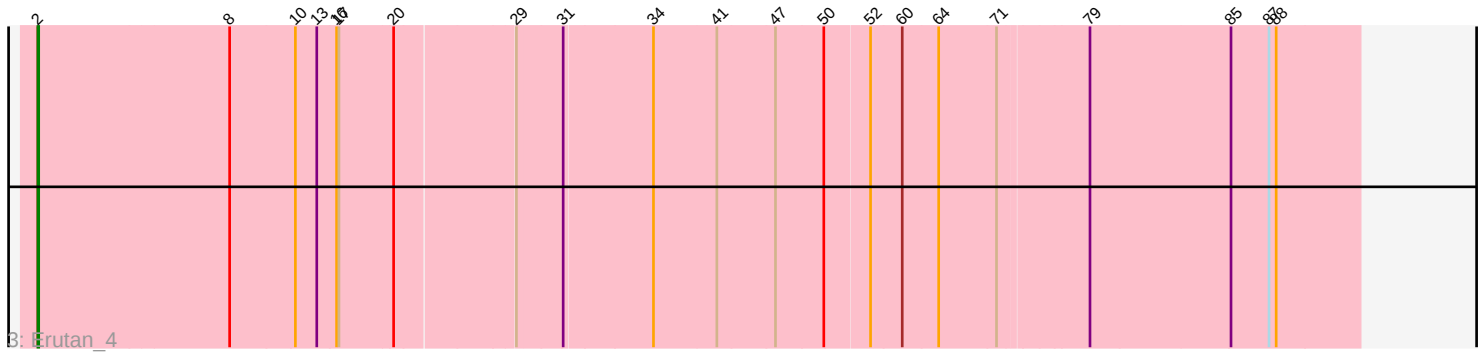
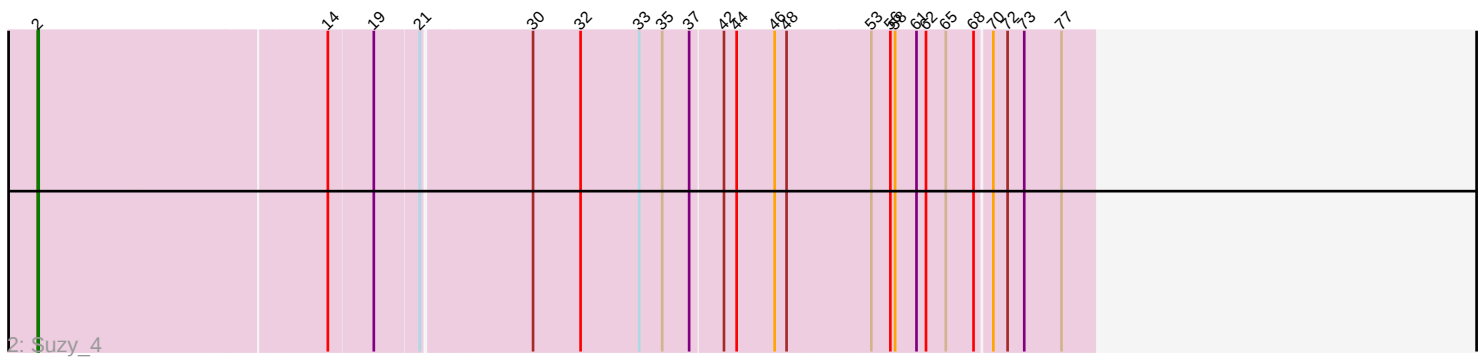
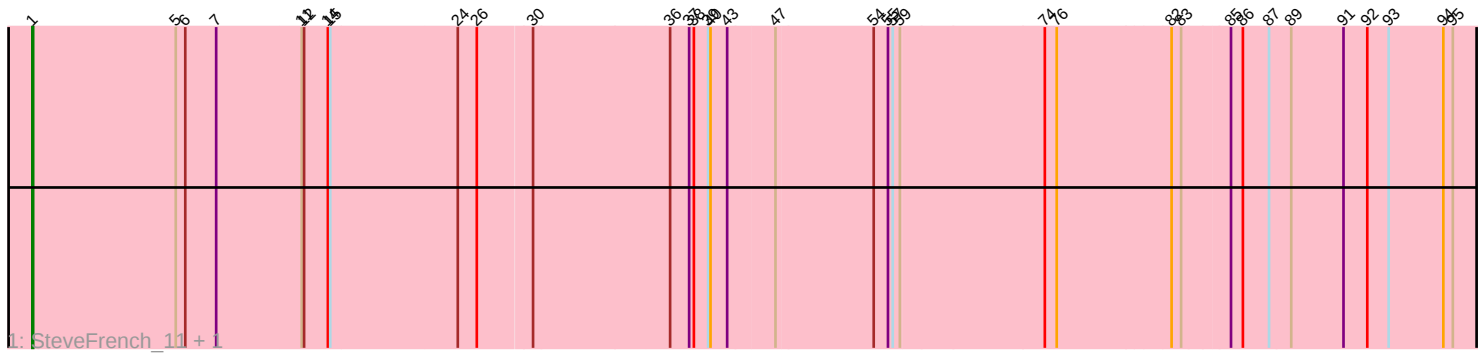


Pham 331714



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 331714 Report

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

Pham number 331714 has 5 members, 1 are drafts.

Phages represented in each track:

- Track 1 : SteveFrench_11, RoyalG_13
- Track 2 : Suzy_4
- Track 3 : Erutan_4
- Track 4 : Mbo2_33

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

The start number called the most often in the published annotations is 2, it was called in 2 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Erutan_4, Suzy_4,

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

-

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

- Mbo2_33, RoyalG_13, SteveFrench_11,

Summary by start number:

Start 1:

- Found in 2 of 5 (40.0%) of genes in pham
- Manual Annotations of this start: 2 of 4
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RoyalG_13 (CS2), SteveFrench_11 (CS2),

Start 2:

- Found in 2 of 5 (40.0%) of genes in pham
- Manual Annotations of this start: 2 of 4
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Erutan_4 (DV), Suzy_4 (DG1),

Start 3:

- Found in 1 of 5 (20.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mbo2_33 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: DV, singleton, DG1, CS2,

Info for manual annotations of cluster CS2:

- Start number 1 was manually annotated 2 times for cluster CS2.

Info for manual annotations of cluster DG1:

- Start number 2 was manually annotated 1 time for cluster DG1.

Info for manual annotations of cluster DV:

- Start number 2 was manually annotated 1 time for cluster DV.

Gene Information:

Gene: Erutan_4 Start: 3416, Stop: 5014, Start Num: 2

Candidate Starts for Erutan_4:

(Start: 2 @3416 has 2 MA's), (8, 3653), (10, 3734), (13, 3761), (16, 3785), (17, 3788), (20, 3854), (29, 3995), (31, 4049), (34, 4157), (41, 4235), (47, 4307), (50, 4367), (52, 4421), (60, 4457), (64, 4502), (71, 4574), (79, 4679), (85, 4853), (87, 4901), (88, 4910),

Gene: Mbo2_33 Start: 32558, Stop: 33970, Start Num: 3

Candidate Starts for Mbo2_33:

(3, 32558), (4, 32582), (9, 32801), (11, 32825), (18, 32882), (22, 32969), (23, 32978), (25, 33017), (27, 33035), (28, 33041), (29, 33071), (34, 33224), (36, 33245), (37, 33266), (38, 33272), (45, 33356), (49, 33395), (51, 33428), (55, 33497), (63, 33539), (64, 33548), (66, 33566), (67, 33569), (69, 33602), (72, 33617), (75, 33659), (78, 33707), (80, 33755), (81, 33800), (82, 33809), (84, 33869), (90, 33959),

Gene: RoyalG_13 Start: 11077, Stop: 12855, Start Num: 1

Candidate Starts for RoyalG_13:

(Start: 1 @11077 has 2 MA's), (5, 11257), (6, 11269), (7, 11308), (11, 11413), (12, 11416), (14, 11446), (15, 11449), (24, 11605), (26, 11629), (30, 11695), (36, 11863), (37, 11887), (38, 11893), (39, 11911), (40, 11914), (43, 11935), (47, 11992), (54, 12112), (55, 12130), (57, 12136), (59, 12145), (74, 12322), (76, 12337), (82, 12475), (83, 12487), (85, 12544), (86, 12559), (87, 12592), (89, 12619), (91, 12685), (92, 12715), (93, 12742), (94, 12811), (95, 12823),

Gene: SteveFrench_11 Start: 10671, Stop: 12449, Start Num: 1

Candidate Starts for SteveFrench_11:

(Start: 1 @10671 has 2 MA's), (5, 10851), (6, 10863), (7, 10902), (11, 11007), (12, 11010), (14, 11040), (15, 11043), (24, 11199), (26, 11223), (30, 11289), (36, 11457), (37, 11481), (38, 11487), (39, 11505), (40, 11508), (43, 11529), (47, 11586), (54, 11706), (55, 11724), (57, 11730), (59, 11739), (74, 11916), (76, 11931), (82, 12069), (83, 12081), (85, 12138), (86, 12153), (87, 12186), (89, 12213), (91, 12279), (92, 12309), (93, 12336), (94, 12405), (95, 12417),

Gene: Suzy_4 Start: 3455, Stop: 4717, Start Num: 2

Candidate Starts for Suzy_4:

(Start: 2 @3455 has 2 MA's), (14, 3806), (19, 3860), (21, 3914), (30, 4043), (32, 4103), (33, 4175), (35, 4202), (37, 4235), (42, 4274), (44, 4289), (46, 4334), (48, 4349), (53, 4451), (56, 4475), (58, 4481), (61, 4505), (62, 4517), (65, 4541), (68, 4574), (70, 4592), (72, 4610), (73, 4631), (77, 4676),