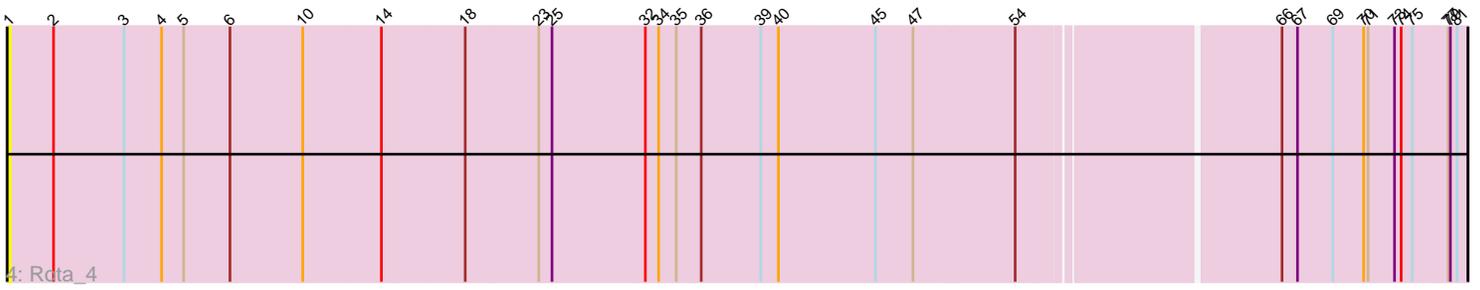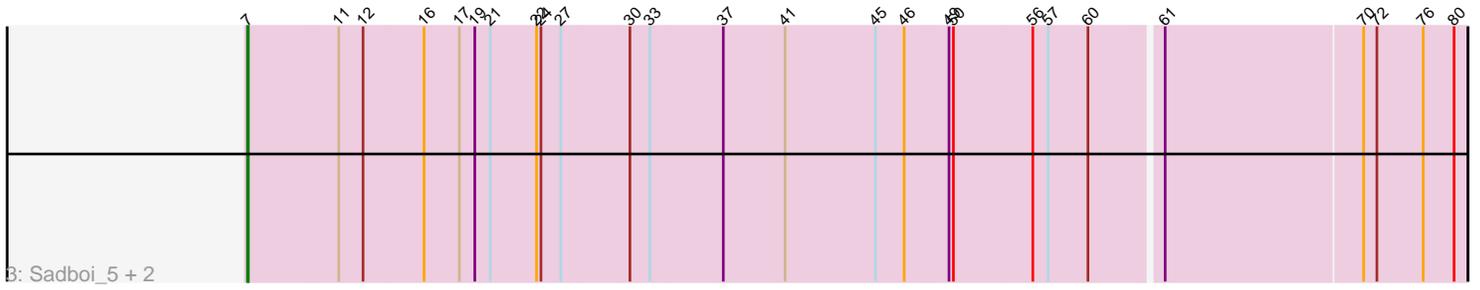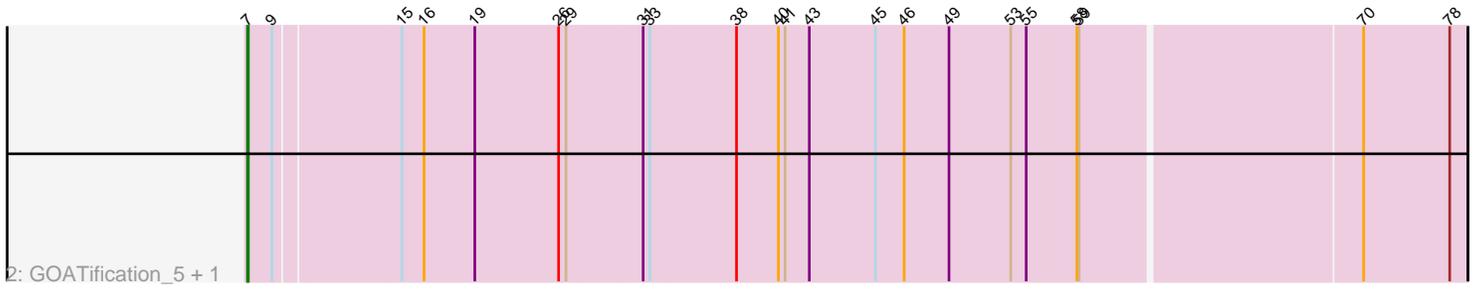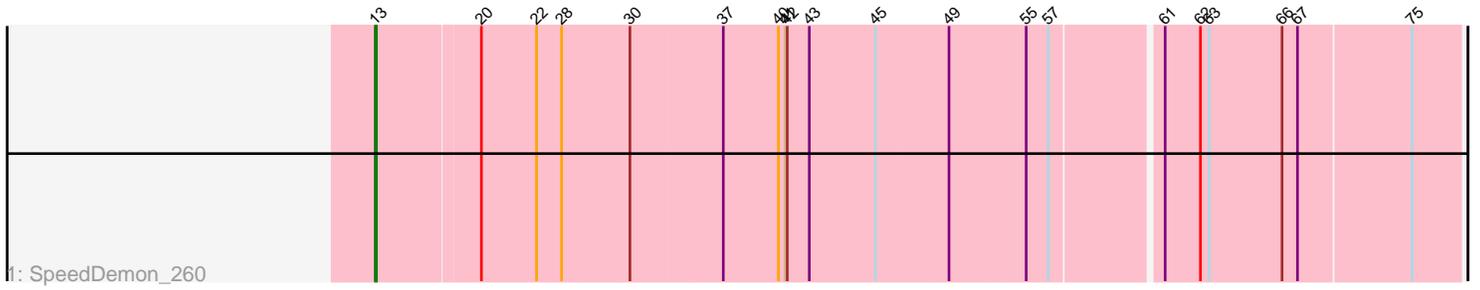# Pham 284478

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 284478 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284478 has 8 members, 1 are drafts.

Phages represented in each track:
• Track 1 : SpeedDemon_260
• Track 2 : GOATification_5, Fulcrum_5
• Track 3 : Sadboi_5, GretelLyn_5, Yikes_5
• Track 4 : Rota_4
• Track 5 : Bolt007_34

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

The start number called the most often in the published annotations is 7, it was called in 5 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Fulcrum_5, GOATification_5, GretelLyn_5, Sadboi_5, Yikes_5,

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

Genes that do not have the "Most Annotated" start:
• Bolt007_34, Rota_4, SpeedDemon_260,

Summary by start number:

Start 1:
• Found in 1 of 8 (12.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rota_4 (DV),

Start 7:
• Found in 5 of 8 (62.5%) of genes in pham
• Manual Annotations of this start: 5 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fulcrum_5 (DV), GOATification_5 (DV), GretelLyn_5 (DV), Sadboi_5 (DV), Yikes_5 (DV),

Start 8:
• Found in 1 of 8 (12.5%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bolt007_34 (FH),

Start 13:
• Found in 1 of 8 (12.5%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SpeedDemon_260 (DL),

Summary by clusters:

There are 3 clusters represented in this pham: FH, DV, DL,

Info for manual annotations of cluster DL:
•Start number 13 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DV:
•Start number 7 was manually annotated 5 times for cluster DV.

Info for manual annotations of cluster FH:
•Start number 8 was manually annotated 1 time for cluster FH.

Gene Information:

Gene: Bolt007_34 Start: 26872, Stop: 28398, Start Num: 8
Candidate Starts for Bolt007_34:
(Start: 8 @26872 has 1 MA's), (44, 27652), (48, 27721), (51, 27787), (52, 27811), (64, 28063), (65, 28129), (68, 28174), (75, 28327), (81, 28384),

Gene: Fulcrum_5 Start: 4907, Stop: 6511, Start Num: 7
Candidate Starts for Fulcrum_5:
(Start: 7 @4907 has 5 MA's), (9, 4940), (15, 5102), (16, 5132), (19, 5201), (26, 5315), (29, 5324), (31, 5426), (33, 5435), (38, 5549), (40, 5606), (41, 5615), (43, 5645), (45, 5735), (46, 5774), (49, 5834), (53, 5915), (55, 5936), (58, 6002), (59, 6005), (70, 6371), (78, 6488),

Gene: GOATification_5 Start: 4907, Stop: 6511, Start Num: 7
Candidate Starts for GOATification_5:
(Start: 7 @4907 has 5 MA's), (9, 4940), (15, 5102), (16, 5132), (19, 5201), (26, 5315), (29, 5324), (31, 5426), (33, 5435), (38, 5549), (40, 5606), (41, 5615), (43, 5645), (45, 5735), (46, 5774), (49, 5834), (53, 5915), (55, 5936), (58, 6002), (59, 6005), (70, 6371), (78, 6488),

Gene: GretelLyn_5 Start: 4844, Stop: 6460, Start Num: 7
Candidate Starts for GretelLyn_5:
(Start: 7 @4844 has 5 MA's), (11, 4967), (12, 5000), (16, 5081), (17, 5129), (19, 5150), (21, 5171), (22, 5234), (24, 5240), (27, 5267), (30, 5357), (33, 5384), (37, 5480), (41, 5564), (45, 5684), (46, 5723), (49, 5783), (50, 5789), (56, 5894), (57, 5915), (60, 5969), (61, 6059), (70, 6323), (72, 6341), (76, 6404), (80, 6446),

Gene: Rota_4 Start: 3338, Stop: 5257, Start Num: 1
Candidate Starts for Rota_4:
(1, 3338), (2, 3398), (3, 3494), (4, 3545), (5, 3575), (6, 3638), (10, 3737), (14, 3842), (18, 3950), (23, 4046), (25, 4064), (32, 4190), (34, 4208), (35, 4229), (36, 4262), (39, 4343), (40, 4367), (45, 4490), (47, 4541), (54, 4676), (66, 5009), (67, 5030), (69, 5078), (70, 5120), (71, 5126), (73, 5162), (74, 5171), (75, 5186), (77, 5231), (79, 5234), (81, 5243),

Gene: Sadboi_5 Start: 4844, Stop: 6460, Start Num: 7
Candidate Starts for Sadboi_5:
(Start: 7 @4844 has 5 MA's), (11, 4967), (12, 5000), (16, 5081), (17, 5129), (19, 5150), (21, 5171), (22, 5234), (24, 5240), (27, 5267), (30, 5357), (33, 5384), (37, 5480), (41, 5564), (45, 5684), (46, 5723), (49, 5783), (50, 5789), (56, 5894), (57, 5915), (60, 5969), (61, 6059), (70, 6323), (72, 6341), (76, 6404), (80, 6446),

Gene: SpeedDemon_260 Start: 16423, Stop: 17838, Start Num: 13
Candidate Starts for SpeedDemon_260:
(Start: 13 @16423 has 1 MA's), (20, 16558), (22, 16633), (28, 16666), (30, 16756), (37, 16876), (40, 16951), (41, 16960), (42, 16963), (43, 16993), (45, 17083), (49, 17179), (55, 17278), (57, 17308), (61, 17443), (62, 17491), (63, 17503), (66, 17602), (67, 17623), (75, 17773),

Gene: Yikes_5 Start: 4801, Stop: 6417, Start Num: 7
Candidate Starts for Yikes_5:
(Start: 7 @4801 has 5 MA's), (11, 4924), (12, 4957), (16, 5038), (17, 5086), (19, 5107), (21, 5128), (22, 5191), (24, 5197), (27, 5224), (30, 5314), (33, 5341), (37, 5437), (41, 5521), (45, 5641), (46, 5680), (49, 5740), (50, 5746), (56, 5851), (57, 5872), (60, 5926), (61, 6016), (70, 6280), (72, 6298), (76, 6361), (80, 6403),