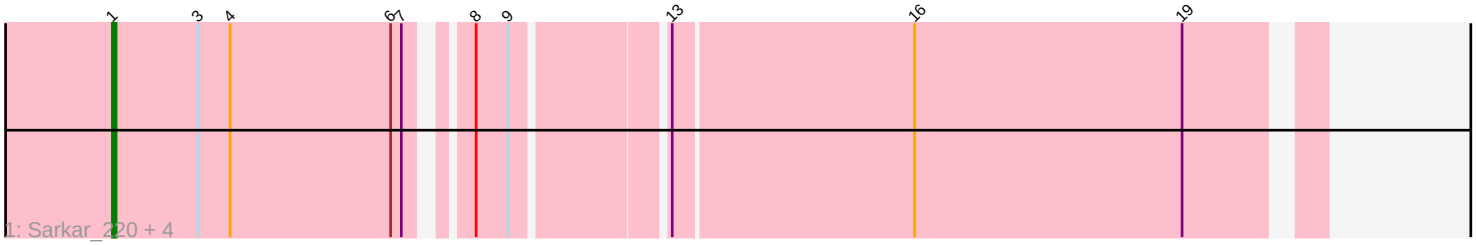
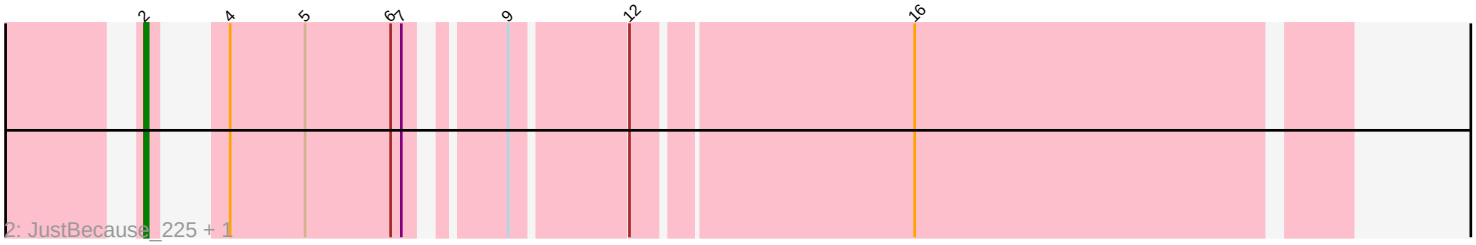
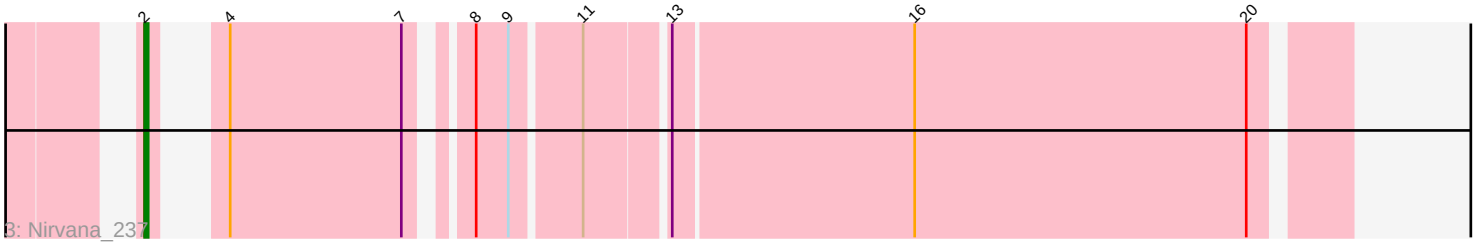
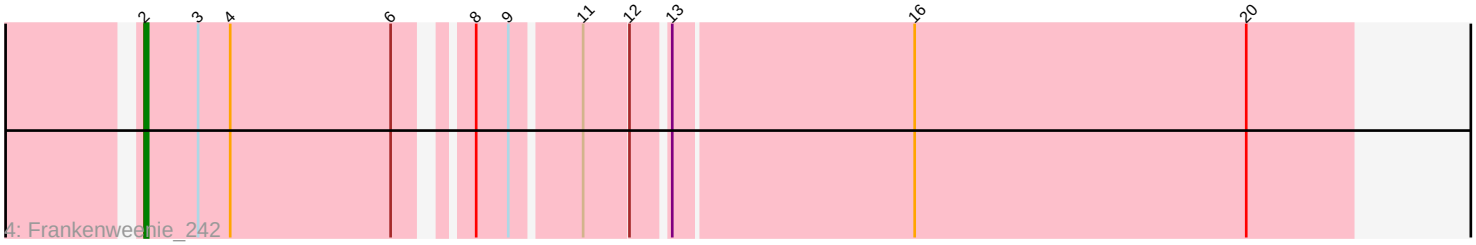
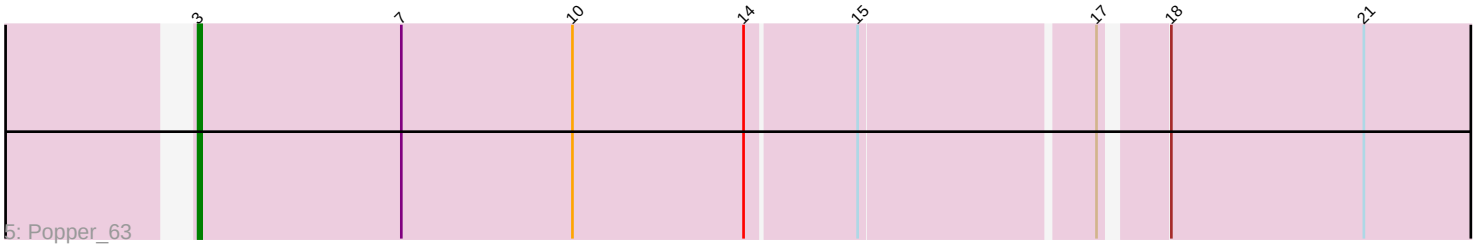
# Pham 344592

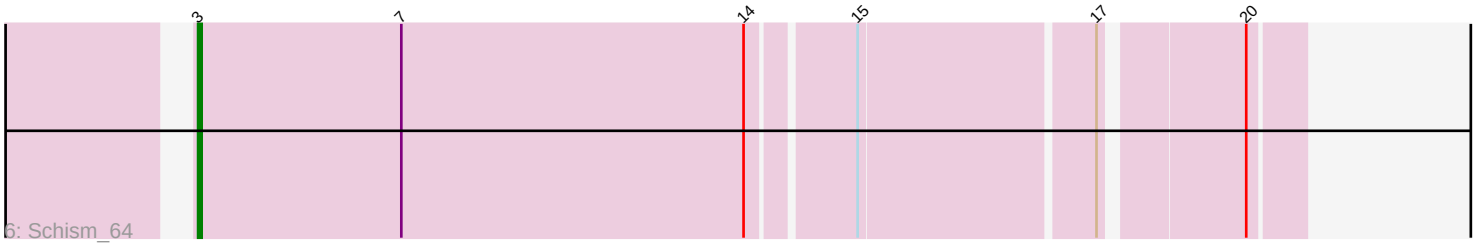

1
3
4
6
7
8
9
13
16
19
1: Sarkar_220 + 4


2
4
5
6
7
9
12
16
2: JustBecause_225 + 1


2
4
7
8
9
11
13
16
20
3: Nirvana_237


2
3
4
6
8
9
11
12
13
16
20
4: Frankenweenie_242


3
7
10
14
15
17
18
21
5: Popper_63


3
7
14
15
17
20
6: Schism_64

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 344592 Report

This analysis was run 11/14/26 on database version 672.

Pham number 344592 has 11 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Sarkar_220, Kradal_222, Satis_220, Quantum_219, EhyElimayoE_223
• Track 2 : JustBecause_225, Kela_223
• Track 3 : Nirvana_237
• Track 4 : Frankenweenie_242
• Track 5 : Popper_63
• Track 6 : Schism_64

***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 5 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• EhyElimayoE_223, Kradal_222, Quantum_219, Sarkar_220, Satis_220,

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

Genes that do not have the "Most Annotated" start:
• Frankenweenie_242, JustBecause_225, Kela_223, Nirvana_237, Popper_63, Schism_64,

**Summary by start number:**

Start 1:
• Found in 5 of 11 ( 45.5% ) of genes in pham
• Manual Annotations of this start: 5 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EhyElimayoE_223 (BM), Kradal_222 (BM), Quantum_219 (BM), Sarkar_220 (BM), Satis_220 (BM),

Start 2:
• Found in 4 of 11 ( 36.4% ) of genes in pham
• Manual Annotations of this start: 4 of 11

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Frankenweenie_242 (BM), JustBecause_225 (BM), Kela_223 (BM), Nirvana_237 (BM),

Start 3:
• Found in 8 of 11 ( 72.7% ) of genes in pham
• Manual Annotations of this start: 2 of 11
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Popper_63 (FF), Schism_64 (FF),

**Summary by clusters:**

There are 2 clusters represented in this pham: BM, FF,

Info for manual annotations of cluster BM:
•Start number 1 was manually annotated 5 times for cluster BM.
•Start number 2 was manually annotated 4 times for cluster BM.

Info for manual annotations of cluster FF:
•Start number 3 was manually annotated 2 times for cluster FF.

***Gene Information:***

Gene: EhyElimayoE_223 Start: 133218, Stop: 133532, Start Num: 1
Candidate Starts for EhyElimayoE_223:
(Start: 1 @133218 has 5 MA's), (Start: 3 @133242 has 2 MA's), (4, 133251), (6, 133296), (7, 133299), (8, 133311), (9, 133320), (13, 133359), (16, 133425), (19, 133500),

Gene: Frankenweenie_242 Start: 144433, Stop: 144753, Start Num: 2
Candidate Starts for Frankenweenie_242:
(Start: 2 @144433 has 4 MA's), (Start: 3 @144448 has 2 MA's), (4, 144457), (6, 144502), (8, 144517), (9, 144526), (11, 144544), (12, 144556), (13, 144565), (16, 144631), (20, 144724),

Gene: JustBecause_225 Start: 132157, Stop: 132456, Start Num: 2
Candidate Starts for JustBecause_225:
(Start: 2 @132157 has 4 MA's), (4, 132166), (5, 132187), (6, 132211), (7, 132214), (9, 132235), (12, 132265), (16, 132340),

Gene: Kela_223 Start: 132002, Stop: 132301, Start Num: 2
Candidate Starts for Kela_223:
(Start: 2 @132002 has 4 MA's), (4, 132011), (5, 132032), (6, 132056), (7, 132059), (9, 132080), (12, 132110), (16, 132185),

Gene: Kradal_222 Start: 133215, Stop: 133529, Start Num: 1
Candidate Starts for Kradal_222:
(Start: 1 @133215 has 5 MA's), (Start: 3 @133239 has 2 MA's), (4, 133248), (6, 133293), (7, 133296), (8, 133308), (9, 133317), (13, 133356), (16, 133422), (19, 133497),

Gene: Nirvana_237 Start: 143308, Stop: 143607, Start Num: 2
Candidate Starts for Nirvana_237:

(Start: 2 @143308 has 4 MA's), (4, 143317), (7, 143365), (8, 143377), (9, 143386), (11, 143404), (13, 143425), (16, 143491), (20, 143584),

Gene: Popper_63 Start: 38038, Stop: 38418, Start Num: 3
Candidate Starts for Popper_63:
(Start: 3 @38038 has 2 MA's), (7, 38095), (10, 38143), (14, 38191), (15, 38221), (17, 38284), (18, 38299), (21, 38353),

Gene: Quantum_219 Start: 133209, Stop: 133523, Start Num: 1
Candidate Starts for Quantum_219:
(Start: 1 @133209 has 5 MA's), (Start: 3 @133233 has 2 MA's), (4, 133242), (6, 133287), (7, 133290), (8, 133302), (9, 133311), (13, 133350), (16, 133416), (19, 133491),

Gene: Sarkar_220 Start: 133239, Stop: 133553, Start Num: 1
Candidate Starts for Sarkar_220:
(Start: 1 @133239 has 5 MA's), (Start: 3 @133263 has 2 MA's), (4, 133272), (6, 133317), (7, 133320), (8, 133332), (9, 133341), (13, 133380), (16, 133446), (19, 133521),

Gene: Satis_220 Start: 133552, Stop: 133866, Start Num: 1
Candidate Starts for Satis_220:
(Start: 1 @133552 has 5 MA's), (Start: 3 @133576 has 2 MA's), (4, 133585), (6, 133630), (7, 133633), (8, 133645), (9, 133654), (13, 133693), (16, 133759), (19, 133834),

Gene: Schism_64 Start: 39233, Stop: 39526, Start Num: 3
Candidate Starts for Schism_64:
(Start: 3 @39233 has 2 MA's), (7, 39290), (14, 39386), (15, 39413), (17, 39476), (20, 39512),