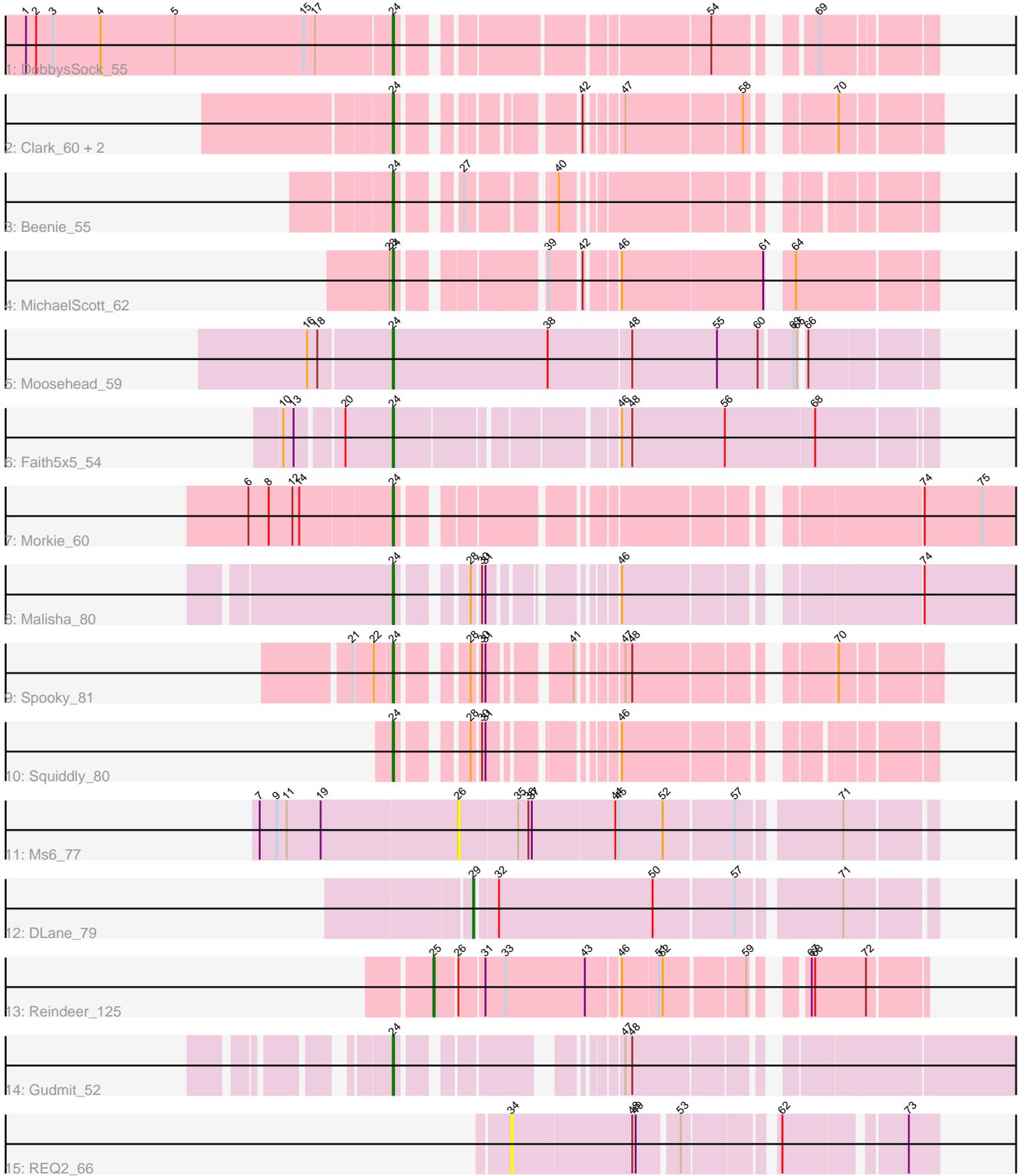Pham 284254

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 284254 Report

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

Pham number 284254 has 17 members, 2 are drafts.

Phages represented in each track:
• Track 1 : DobbysSock_55
• Track 2 : Clark_60, Samman98_61, Invectra_63
• Track 3 : Beenie_55
• Track 4 : MichaelScott_62
• Track 5 : Moosehead_59
• Track 6 : Faith5x5_54
• Track 7 : Morkie_60
• Track 8 : Malisha_80
• Track 9 : Spooky_81
• Track 10 : Squiddly_80
• Track 11 : Ms6_77
• Track 12 : DLane_79
• Track 13 : Reindeer_125
• Track 14 : Gudmit_52
• Track 15 : REQ2_66

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

The start number called the most often in the published annotations is 24, it was called in 13 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beenie_55, Clark_60, DobbysSock_55, Faith5x5_54, Gudmit_52, Invectra_63, Malisha_80, MichaelScott_62, Moosehead_59, Morkie_60, Samman98_61, Spooky_81, Squiddly_80,

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

Genes that do not have the "Most Annotated" start:
• DLane_79, Ms6_77, REQ2_66, Reindeer_125,

Summary by start number:

Start 24:
• Found in 13 of 17 (76.5%) of genes in pham
• Manual Annotations of this start: 13 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beenie_55 (CZ4), Clark_60 (CZ4), DobbysSock_55 (CZ4), Faith5x5_54 (CZ6), Gudmit_52 (singleton), Invectra_63 (CZ4), Malisha_80 (DN), MichaelScott_62 (CZ4), Moosehead_59 (CZ6), Morkie_60 (DH), Samman98_61 (CZ4), Spooky_81 (DN2), Squiddly_80 (DN2),

Start 25:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Reindeer_125 (M1),

Start 26:
• Found in 2 of 17 (11.8%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Ms6_77 (F1),

Start 29:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DLane_79 (F1),

Start 34:
• Found in 1 of 17 (5.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: REQ2_66 (singleton),

Summary by clusters:

There are 8 clusters represented in this pham: DN, F1, singleton, DH, CZ6, CZ4, M1, DN2,

Info for manual annotations of cluster CZ4:
•Start number 24 was manually annotated 6 times for cluster CZ4.

Info for manual annotations of cluster CZ6:
•Start number 24 was manually annotated 2 times for cluster CZ6.

Info for manual annotations of cluster DH:
•Start number 24 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:
•Start number 24 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN2:
•Start number 24 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster F1:
•Start number 29 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster M1:
•Start number 25 was manually annotated 1 time for cluster M1.

Gene Information:

Gene: Beenie_55 Start: 40138, Stop: 40506, Start Num: 24
Candidate Starts for Beenie_55:
(Start: 24 @40138 has 13 MA's), (27, 40177), (40, 40240),

Gene: Clark_60 Start: 39935, Stop: 40306, Start Num: 24
Candidate Starts for Clark_60:
(Start: 24 @39935 has 13 MA's), (42, 40049), (47, 40073), (58, 40169), (70, 40226),

Gene: DLane_79 Start: 49141, Stop: 49515, Start Num: 29
Candidate Starts for DLane_79:
(Start: 29 @49141 has 1 MA's), (32, 49156), (50, 49291), (57, 49360), (71, 49441),

Gene: DobbysSock_55 Start: 39516, Stop: 39908, Start Num: 24
Candidate Starts for DobbysSock_55:
(1, 39198), (2, 39207), (3, 39222), (4, 39264), (5, 39330), (15, 39444), (17, 39453), (Start: 24 @39516 has 13 MA's), (54, 39750), (69, 39816),

Gene: Faith5x5_54 Start: 34585, Stop: 35022, Start Num: 24
Candidate Starts for Faith5x5_54:
(10, 34498), (13, 34507), (20, 34543), (Start: 24 @34585 has 13 MA's), (46, 34756), (48, 34765), (56, 34846), (68, 34924),

Gene: Gudmit_52 Start: 32678, Stop: 33130, Start Num: 24
Candidate Starts for Gudmit_52:
(Start: 24 @32678 has 13 MA's), (47, 32816), (48, 32822),

Gene: Invectra_63 Start: 41508, Stop: 41879, Start Num: 24
Candidate Starts for Invectra_63:
(Start: 24 @41508 has 13 MA's), (42, 41622), (47, 41646), (58, 41742), (70, 41799),

Gene: Malisha_80 Start: 48865, Stop: 49314, Start Num: 24
Candidate Starts for Malisha_80:
(Start: 24 @48865 has 13 MA's), (28, 48910), (30, 48916), (31, 48919), (46, 48997), (74, 49225),

Gene: MichaelScott_62 Start: 41372, Stop: 41779, Start Num: 24
Candidate Starts for MichaelScott_62:
(23, 41369), (Start: 24 @41372 has 13 MA's), (39, 41477), (42, 41501), (46, 41525), (61, 41648), (64, 41660),

Gene: Moosehead_59 Start: 34924, Stop: 35379, Start Num: 24
Candidate Starts for Moosehead_59:
(16, 34852), (18, 34861), (Start: 24 @34924 has 13 MA's), (38, 35059), (48, 35131), (55, 35206), (60, 35242), (63, 35269), (65, 35272), (66, 35275),

Gene: Morkie_60 Start: 36373, Stop: 36831, Start Num: 24
Candidate Starts for Morkie_60:
(6, 36250), (8, 36268), (12, 36289), (14, 36295), (Start: 24 @36373 has 13 MA's), (74, 36754), (75, 36805),

Gene: Ms6_77 Start: 44192, Stop: 44584, Start Num: 26
Candidate Starts for Ms6_77:
(7, 44018), (9, 44033), (11, 44042), (19, 44072), (26, 44192), (35, 44243), (36, 44252), (37, 44255), (44, 44327), (45, 44330), (52, 44369), (57, 44429), (71, 44510),

Gene: REQ2_66 Start: 42263, Stop: 42595, Start Num: 34
Candidate Starts for REQ2_66:
(34, 42263), (48, 42368), (49, 42371), (53, 42404), (62, 42473), (73, 42569),

Gene: Reindeer_125 Start: 66666, Stop: 67040, Start Num: 25
Candidate Starts for Reindeer_125:
(Start: 25 @66666 has 1 MA's), (26, 66684), (31, 66705), (33, 66723), (43, 66792), (46, 66819), (51, 66849), (52, 66852), (59, 66918), (67, 66945), (68, 66948), (72, 66993),

Gene: Samman98_61 Start: 40038, Stop: 40409, Start Num: 24
Candidate Starts for Samman98_61:
(Start: 24 @40038 has 13 MA's), (42, 40152), (47, 40176), (58, 40272), (70, 40329),

Gene: Spooky_81 Start: 46355, Stop: 46723, Start Num: 24
Candidate Starts for Spooky_81:
(21, 46328), (22, 46343), (Start: 24 @46355 has 13 MA's), (28, 46400), (30, 46406), (31, 46409), (41, 46463), (47, 46490), (48, 46496), (70, 46643),

Gene: Squiddly_80 Start: 48754, Stop: 49113, Start Num: 24
Candidate Starts for Squiddly_80:
(Start: 24 @48754 has 13 MA's), (28, 48799), (30, 48805), (31, 48808), (46, 48886),