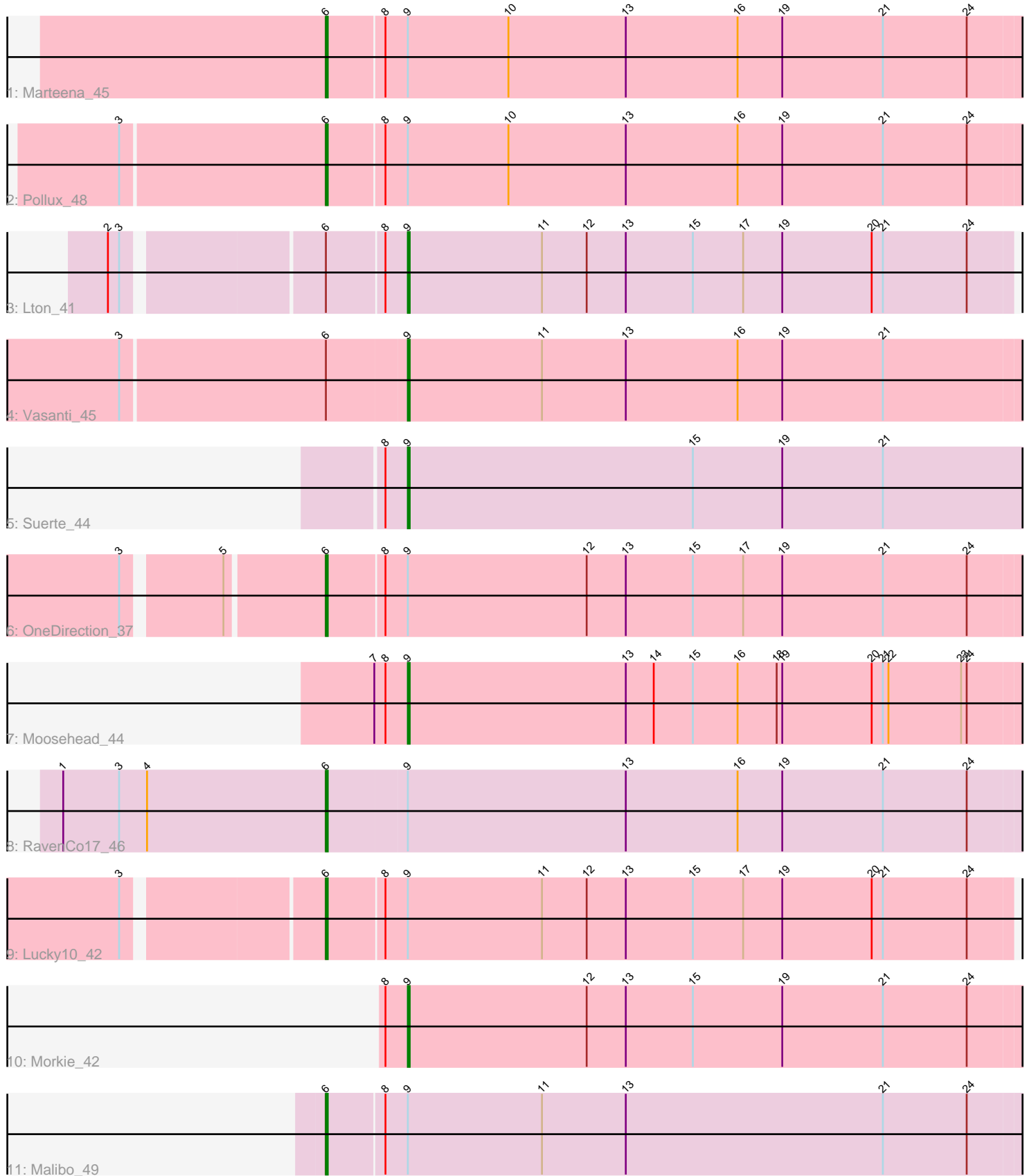# Pham 87311

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 87311 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87311 has 11 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Marteena_45
• Track 2 : Pollux_48
• Track 3 : Lton_41
• Track 4 : Vasanti_45
• Track 5 : Suerte_44
• Track 6 : OneDirection_37
• Track 7 : Moosehead_44
• Track 8 : RavenCo17_46
• Track 9 : Lucky10_42
• Track 10 : Morkie_42
• Track 11 : Malibo_49

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

The start number called the most often in the published annotations is 6, it was called in 6 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Lucky10_42, Malibo_49, Marteena_45, OneDirection_37, Pollux_48, RavenCo17_46,

Genes that have the "Most Annotated" start but do not call it:
• Lton_41, Vasanti_45,

Genes that do not have the "Most Annotated" start:
• Moosehead_44, Morkie_42, Suerte_44,

Summary by start number:

Start 6:
• Found in 8 of 11 (72.7%) of genes in pham
• Manual Annotations of this start: 6 of 11
• Called 75.0% of time when present

• Phage (with cluster) where this start called: Lucky10_42 (DH), Malibo_49 (DW), Marteena_45 (CY1), OneDirection_37 (CZ6), Pollux_48 (CY1), RavenCo17_46 (CZ8),

Start 9:
• Found in 11 of 11 (100.0%) of genes in pham
• Manual Annotations of this start: 5 of 11
• Called 45.5% of time when present
• Phage (with cluster) where this start called: Lton_41 (CZ), Moosehead_44 (CZ6), Morkie_42 (DH), Suerte_44 (CZ4), Vasanti_45 (CZ2),

Summary by clusters:

There are 8 clusters represented in this pham: CY1, DH, CZ2, CZ6, CZ8, CZ4, CZ, DW,

Info for manual annotations of cluster CY1:
•Start number 6 was manually annotated 2 times for cluster CY1.

Info for manual annotations of cluster CZ:
•Start number 9 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ2:
•Start number 9 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster CZ4:
•Start number 9 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster CZ6:
•Start number 6 was manually annotated 1 time for cluster CZ6.
•Start number 9 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster CZ8:
•Start number 6 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DH:
•Start number 6 was manually annotated 1 time for cluster DH.
•Start number 9 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DW:
•Start number 6 was manually annotated 1 time for cluster DW.

Gene Information:
Gene: Lton_41 Start: 29186, Stop: 29509, Start Num: 9
Candidate Starts for Lton_41:
(2, 29039), (3, 29045), (Start: 6 @29144 has 6 MA's), (8, 29174), (Start: 9 @29186 has 5 MA's), (11, 29258), (12, 29282), (13, 29303), (15, 29339), (17, 29366), (19, 29387), (20, 29435), (21, 29441), (24, 29486),

Gene: Lucky10_42 Start: 31862, Stop: 32227, Start Num: 6

Candidate Starts for Lucky10_42:
(3, 31763), (Start: 6 @31862 has 6 MA's), (8, 31892), (Start: 9 @31904 has 5 MA's), (11, 31976), (12, 32000), (13, 32021), (15, 32057), (17, 32084), (19, 32105), (20, 32153), (21, 32159), (24, 32204),

Gene: Malibo_49 Start: 36464, Stop: 36838, Start Num: 6
Candidate Starts for Malibo_49:
(Start: 6 @36464 has 6 MA's), (8, 36494), (Start: 9 @36506 has 5 MA's), (11, 36578), (13, 36623), (21, 36761), (24, 36806),

Gene: Marteena_45 Start: 35687, Stop: 36061, Start Num: 6
Candidate Starts for Marteena_45:
(Start: 6 @35687 has 6 MA's), (8, 35717), (Start: 9 @35729 has 5 MA's), (10, 35783), (13, 35846), (16, 35906), (19, 35930), (21, 35984), (24, 36029),

Gene: Moosehead_44 Start: 30110, Stop: 30442, Start Num: 9
Candidate Starts for Moosehead_44:
(7, 30092), (8, 30098), (Start: 9 @30110 has 5 MA's), (13, 30227), (14, 30242), (15, 30263), (16, 30287), (18, 30308), (19, 30311), (20, 30359), (21, 30365), (22, 30368), (23, 30407), (24, 30410),

Gene: Morkie_42 Start: 30802, Stop: 31134, Start Num: 9
Candidate Starts for Morkie_42:
(8, 30790), (Start: 9 @30802 has 5 MA's), (12, 30898), (13, 30919), (15, 30955), (19, 31003), (21, 31057), (24, 31102),

Gene: OneDirection_37 Start: 28374, Stop: 28748, Start Num: 6
Candidate Starts for OneDirection_37:
(3, 28275), (5, 28323), (Start: 6 @28374 has 6 MA's), (8, 28404), (Start: 9 @28416 has 5 MA's), (12, 28512), (13, 28533), (15, 28569), (17, 28596), (19, 28617), (21, 28671), (24, 28716),

Gene: Pollux_48 Start: 37171, Stop: 37545, Start Num: 6
Candidate Starts for Pollux_48:
(3, 37063), (Start: 6 @37171 has 6 MA's), (8, 37201), (Start: 9 @37213 has 5 MA's), (10, 37267), (13, 37330), (16, 37390), (19, 37414), (21, 37468), (24, 37513),

Gene: RavenCo17_46 Start: 35992, Stop: 36366, Start Num: 6
Candidate Starts for RavenCo17_46:
(1, 35851), (3, 35881), (4, 35896), (Start: 6 @35992 has 6 MA's), (Start: 9 @36034 has 5 MA's), (13, 36151), (16, 36211), (19, 36235), (21, 36289), (24, 36334),

Gene: Suerte_44 Start: 33965, Stop: 34300, Start Num: 9
Candidate Starts for Suerte_44:
(8, 33953), (Start: 9 @33965 has 5 MA's), (15, 34118), (19, 34166), (21, 34220),

Gene: Vasanti_45 Start: 32352, Stop: 32684, Start Num: 9
Candidate Starts for Vasanti_45:
(3, 32202), (Start: 6 @32310 has 6 MA's), (Start: 9 @32352 has 5 MA's), (11, 32424), (13, 32469), (16, 32529), (19, 32553), (21, 32607),