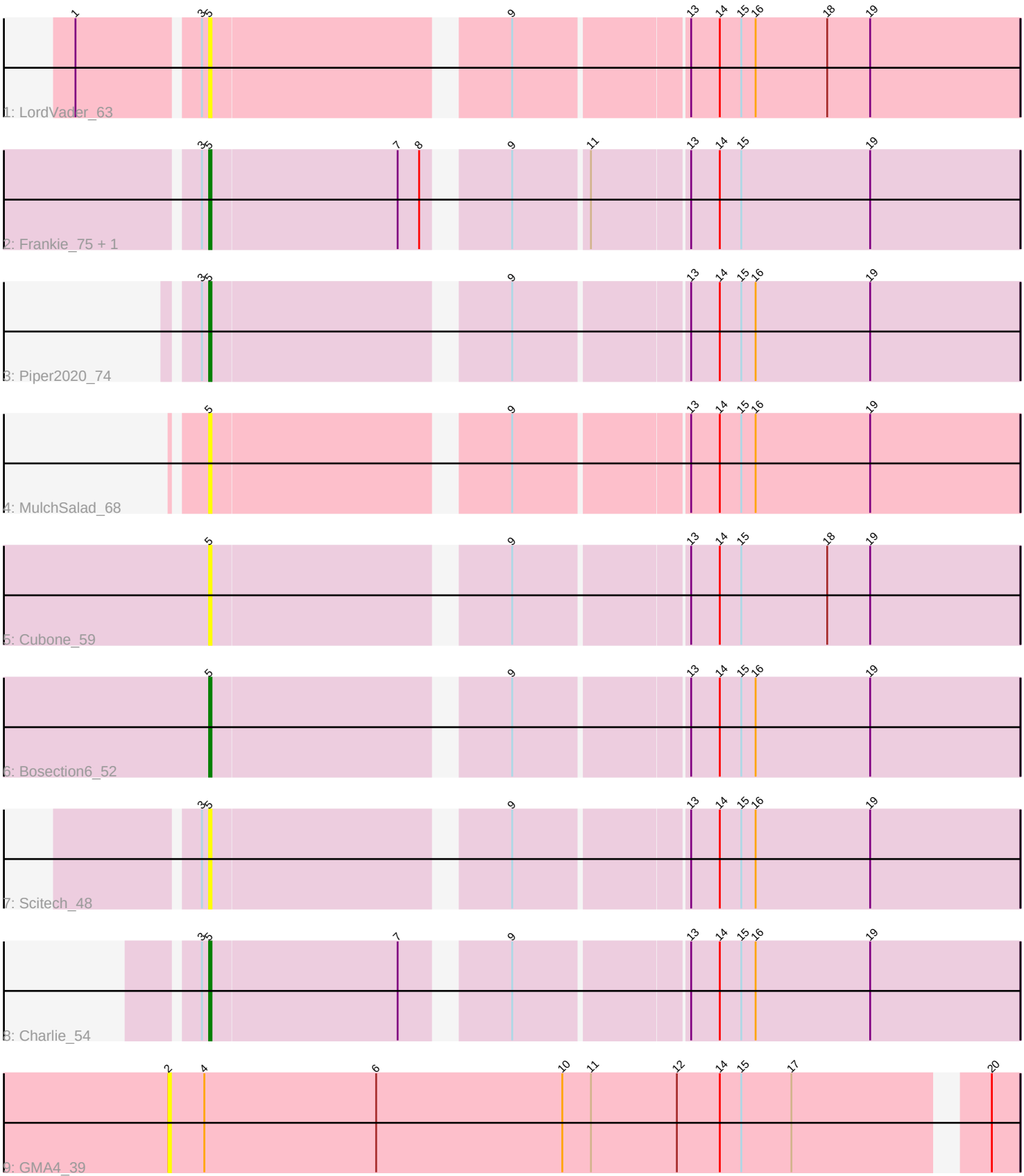
# Pham 295302


1: LordVader_63
2: Frankie_75 + 1
3: Piper2020_74
4: MulchSalad_68
5: Cubone_59
6: Bosection6_52
7: Scitech_48
8: Charlie_54
9: GMA4_39

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 295302 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295302 has 10 members, 5 are drafts.

Phages represented in each track:
• Track 1 : LordVader_63
• Track 2 : Frankie_75, LilSpotty_69
• Track 3 : Piper2020_74
• Track 4 : MulchSalad_68
• Track 5 : Cubone_59
• Track 6 : Bosection6_52
• Track 7 : Scitech_48
• Track 8 : Charlie_54
• Track 9 : GMA4_39

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

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

Genes that call this "Most Annotated" start:
• Bosection6_52, Charlie_54, Cubone_59, Frankie_75, LilSpotty_69, LordVader_63, MulchSalad_68, Piper2020_74, Scitech_48,

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

Genes that do not have the "Most Annotated" start:
• GMA4_39,

**Summary by start number:**

Start 2:
• Found in 1 of 10 ( 10.0% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA4_39 (singleton),

Start 5:

• Found in 9 of 10 ( 90.0% ) of genes in pham
• Manual Annotations of this start: 5 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bosection6_52 (N), Charlie_54 (N), Cubone_59 (N), Frankie_75 (F1), LilSpotty_69 (singleton), LordVader_63 (F), MulchSalad_68 (F7), Piper2020_74 (F1), Scitech_48 (N),

**Summary by clusters:**

There are 5 clusters represented in this pham: F1, singleton, F7, F, N,

Info for manual annotations of cluster F1:
•Start number 5 was manually annotated 2 times for cluster F1.

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

***Gene Information:***

Gene: Bosection6_52 Start: 34777, Stop: 35097, Start Num: 5
Candidate Starts for Bosection6_52:
(Start: 5 @34777 has 5 MA's), (9, 34891), (13, 34960), (14, 34972), (15, 34981), (16, 34987), (19, 35035),

Gene: Charlie_54 Start: 34401, Stop: 34721, Start Num: 5
Candidate Starts for Charlie_54:
(3, 34398), (Start: 5 @34401 has 5 MA's), (7, 34479), (9, 34515), (13, 34584), (14, 34596), (15, 34605), (16, 34611), (19, 34659),

Gene: Cubone_59 Start: 35195, Stop: 35515, Start Num: 5
Candidate Starts for Cubone_59:
(Start: 5 @35195 has 5 MA's), (9, 35309), (13, 35378), (14, 35390), (15, 35399), (18, 35435), (19, 35453),

Gene: Frankie_75 Start: 45665, Stop: 45985, Start Num: 5
Candidate Starts for Frankie_75:
(3, 45662), (Start: 5 @45665 has 5 MA's), (7, 45743), (8, 45752), (9, 45779), (11, 45809), (13, 45848), (14, 45860), (15, 45869), (19, 45923),

Gene: GMA4_39 Start: 29757, Stop: 30101, Start Num: 2
Candidate Starts for GMA4_39:
(2, 29757), (4, 29772), (6, 29844), (10, 29922), (11, 29934), (12, 29970), (14, 29988), (15, 29997), (17, 30018), (20, 30090),

Gene: LilSpotty_69 Start: 42065, Stop: 42385, Start Num: 5
Candidate Starts for LilSpotty_69:
(3, 42062), (Start: 5 @42065 has 5 MA's), (7, 42143), (8, 42152), (9, 42179), (11, 42209), (13, 42248), (14, 42260), (15, 42269), (19, 42323),

Gene: LordVader_63 Start: 38805, Stop: 39125, Start Num: 5
Candidate Starts for LordVader_63:
(1, 38754), (3, 38802), (Start: 5 @38805 has 5 MA's), (9, 38919), (13, 38988), (14, 39000), (15, 39009), (16, 39015), (18, 39045), (19, 39063),

Gene: MulchSalad_68 Start: 41154, Stop: 41474, Start Num: 5
Candidate Starts for MulchSalad_68:
(Start: 5 @41154 has 5 MA's), (9, 41268), (13, 41337), (14, 41349), (15, 41358), (16, 41364), (19, 41412),

Gene: Piper2020_74 Start: 44604, Stop: 44924, Start Num: 5
Candidate Starts for Piper2020_74:
(3, 44601), (Start: 5 @44604 has 5 MA's), (9, 44718), (13, 44787), (14, 44799), (15, 44808), (16, 44814), (19, 44862),

Gene: Scitech_48 Start: 33234, Stop: 33554, Start Num: 5
Candidate Starts for Scitech_48:
(3, 33231), (Start: 5 @33234 has 5 MA's), (9, 33348), (13, 33417), (14, 33429), (15, 33438), (16, 33444), (19, 33492),