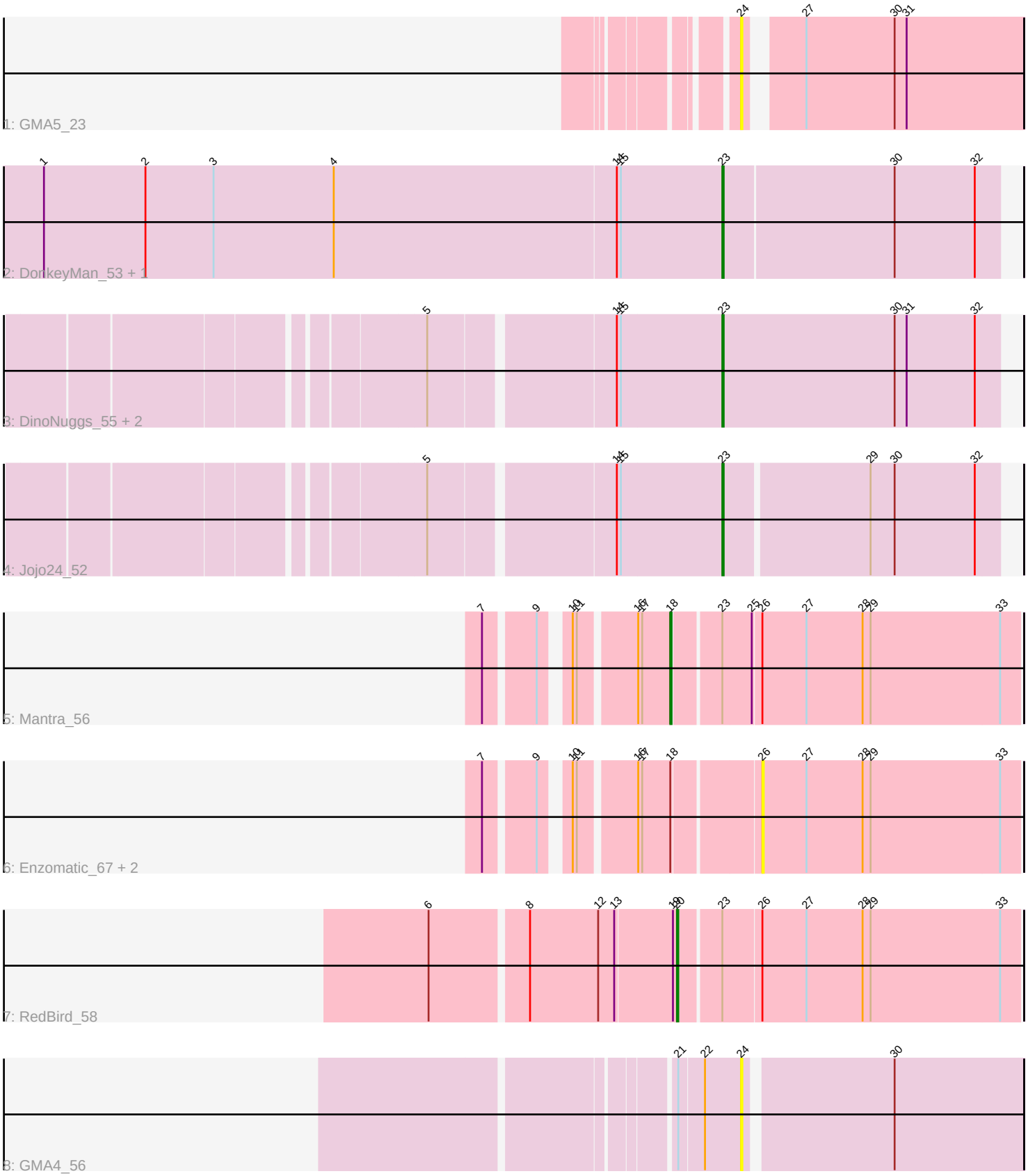
Pham 297115


1: GMA5_23
2: DonkeyMan_53 + 1
3: DinoNuggs_55 + 2
4: Jojo24_52
5: Mantra_56
6: Enzomatic_67 + 2
7: RedBird_58
8: GMA4_56

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 297115 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297115 has 13 members, 7 are drafts.

Phages represented in each track:
• Track 1 : GMA5_23
• Track 2 : DonkeyMan_53, Tarzan_53
• Track 3 : DinoNuggs_55, Reyja_55, DearBasketball_57
• Track 4 : Jojo24_52
• Track 5 : Mantra_56
• Track 6 : Enzomatic_67, SeaLumen_65, Polo2Bam_66
• Track 7 : RedBird_58
• Track 8 : GMA4_56

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

The start number called the most often in the published annotations is 23, it was called in 4 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• DearBasketball_57, DinoNuggs_55, DonkeyMan_53, Jojo24_52, Reyja_55, Tarzan_53,

Genes that have the "Most Annotated" start but do not call it:
• Mantra_56, RedBird_58,

Genes that do not have the "Most Annotated" start:
• Enzomatic_67, GMA4_56, GMA5_23, Polo2Bam_66, SeaLumen_65,

Summary by start number:

Start 18:
• Found in 4 of 13 (30.8%) of genes in pham
• Manual Annotations of this start: 1 of 6
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Mantra_56 (F1),

Start 20:
• Found in 1 of 13 (7.7%) of genes in pham

• Manual Annotations of this start: 1 of 6
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RedBird_58 (F1),

Start 23:
• Found in 8 of 13 (61.5%) of genes in pham
• Manual Annotations of this start: 4 of 6
• Called 75.0% of time when present
• Phage (with cluster) where this start called: DearBasketball_57 (DY), DinoNuggs_55 (DY), DonkeyMan_53 (DY), Jojo24_52 (DY), Reyja_55 (DY), Tarzan_53 (DY),

Start 24:
• Found in 2 of 13 (15.4%) 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_56 (singleton), GMA5_23 (CW2),

Start 26:
• Found in 5 of 13 (38.5%) of genes in pham
• No Manual Annotations of this start.
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Enzomatic_67 (F1), Polo2Bam_66 (F1), SeaLumen_65 (F1),

Summary by clusters:

There are 4 clusters represented in this pham: F1, singleton, CW2, DY,

Info for manual annotations of cluster DY:
•Start number 23 was manually annotated 4 times for cluster DY.

Info for manual annotations of cluster F1:
•Start number 18 was manually annotated 1 time for cluster F1.
•Start number 20 was manually annotated 1 time for cluster F1.

Gene Information:

Gene: DearBasketball_57 Start: 35676, Stop: 35882, Start Num: 23
Candidate Starts for DearBasketball_57:
(5, 35469), (14, 35598), (15, 35601), (Start: 23 @35676 has 4 MA's), (30, 35805), (31, 35814), (32, 35865),

Gene: DinoNuggs_55 Start: 35345, Stop: 35551, Start Num: 23
Candidate Starts for DinoNuggs_55:
(5, 35138), (14, 35267), (15, 35270), (Start: 23 @35345 has 4 MA's), (30, 35474), (31, 35483), (32, 35534),

Gene: DonkeyMan_53 Start: 34757, Stop: 34960, Start Num: 23
Candidate Starts for DonkeyMan_53:

(1, 34253), (2, 34328), (3, 34379), (4, 34469), (14, 34679), (15, 34682), (Start: 23 @34757 has 4 MA's), (30, 34883), (32, 34943),

Gene: Enzomatic_67 Start: 40234, Stop: 40425, Start Num: 26
Candidate Starts for Enzomatic_67:
(7, 40060), (9, 40093), (10, 40108), (11, 40111), (16, 40150), (17, 40153), (Start: 18 @40174 has 1 MA's), (26, 40234), (27, 40267), (28, 40309), (29, 40315), (33, 40411),

Gene: GMA4_56 Start: 35967, Stop: 36167, Start Num: 24
Candidate Starts for GMA4_56:
(21, 35922), (22, 35940), (24, 35967), (30, 36072),

Gene: GMA5_23 Start: 15324, Stop: 15518, Start Num: 24
Candidate Starts for GMA5_23:
(24, 15324), (27, 15357), (30, 15423), (31, 15432),

Gene: Jojo24_52 Start: 34059, Stop: 34259, Start Num: 23
Candidate Starts for Jojo24_52:
(5, 33852), (14, 33981), (15, 33984), (Start: 23 @34059 has 4 MA's), (29, 34164), (30, 34182), (32, 34242),

Gene: Mantra_56 Start: 39272, Stop: 39523, Start Num: 18
Candidate Starts for Mantra_56:
(7, 39158), (9, 39191), (10, 39206), (11, 39209), (16, 39248), (17, 39251), (Start: 18 @39272 has 1 MA's), (Start: 23 @39305 has 4 MA's), (25, 39326), (26, 39332), (27, 39365), (28, 39407), (29, 39413), (33, 39509),

Gene: Polo2Bam_66 Start: 40234, Stop: 40425, Start Num: 26
Candidate Starts for Polo2Bam_66:
(7, 40060), (9, 40093), (10, 40108), (11, 40111), (16, 40150), (17, 40153), (Start: 18 @40174 has 1 MA's), (26, 40234), (27, 40267), (28, 40309), (29, 40315), (33, 40411),

Gene: RedBird_58 Start: 39602, Stop: 39850, Start Num: 20
Candidate Starts for RedBird_58:
(6, 39425), (8, 39494), (12, 39545), (13, 39557), (19, 39599), (Start: 20 @39602 has 1 MA's), (Start: 23 @39632 has 4 MA's), (26, 39659), (27, 39692), (28, 39734), (29, 39740), (33, 39836),

Gene: Reyja_55 Start: 35345, Stop: 35551, Start Num: 23
Candidate Starts for Reyja_55:
(5, 35138), (14, 35267), (15, 35270), (Start: 23 @35345 has 4 MA's), (30, 35474), (31, 35483), (32, 35534),

Gene: SeaLumen_65 Start: 40234, Stop: 40425, Start Num: 26
Candidate Starts for SeaLumen_65:
(7, 40060), (9, 40093), (10, 40108), (11, 40111), (16, 40150), (17, 40153), (Start: 18 @40174 has 1 MA's), (26, 40234), (27, 40267), (28, 40309), (29, 40315), (33, 40411),

Gene: Tarzan_53 Start: 34012, Stop: 34215, Start Num: 23
Candidate Starts for Tarzan_53:
(1, 33508), (2, 33583), (3, 33634), (4, 33724), (14, 33934), (15, 33937), (Start: 23 @34012 has 4 MA's), (30, 34138), (32, 34198),