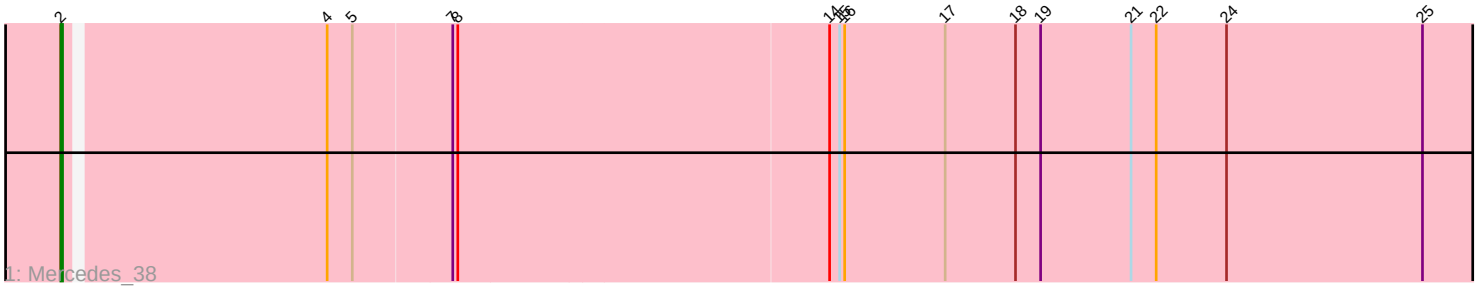
Pham 197048


2
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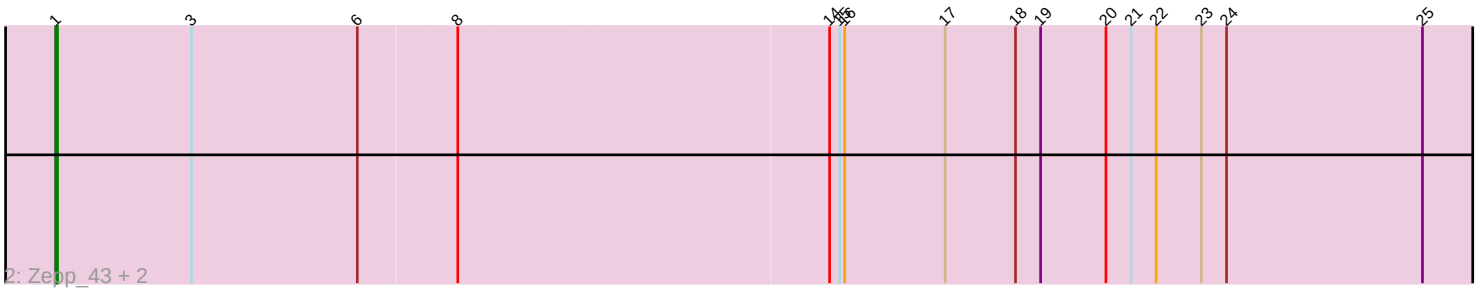
1: Mercedes_38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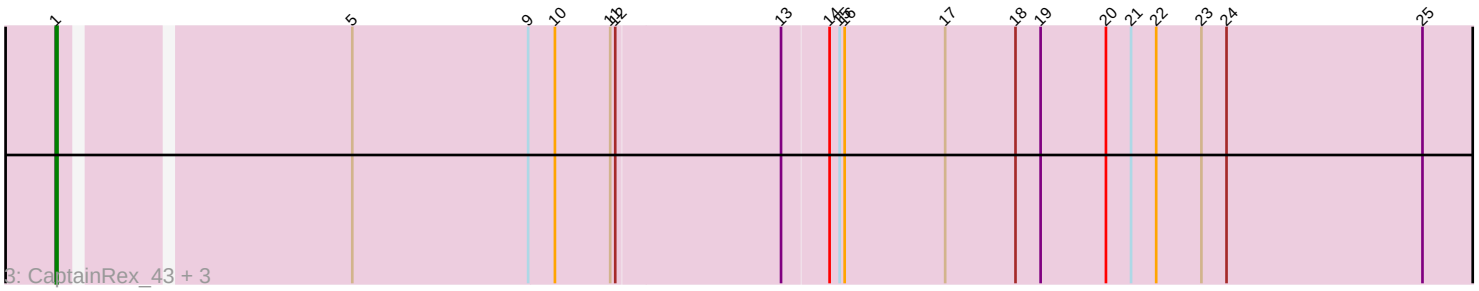
2: Zepp_43 + 2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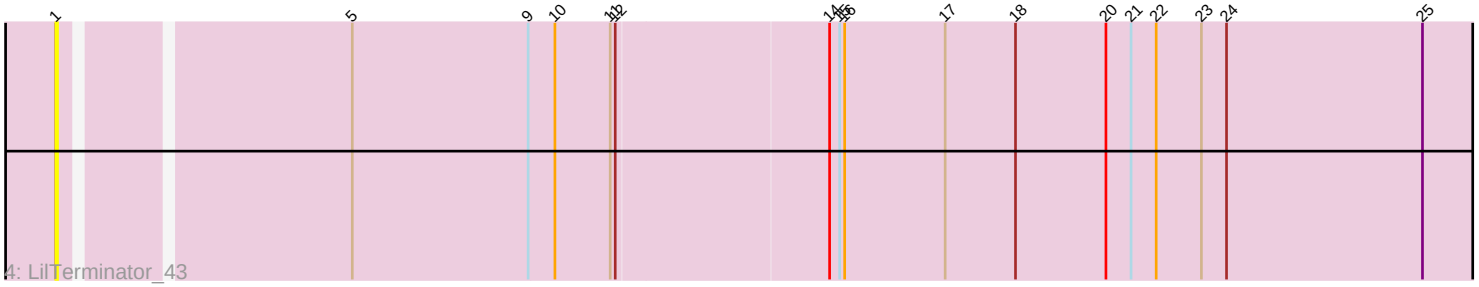
3: CaptainRex_43 + 3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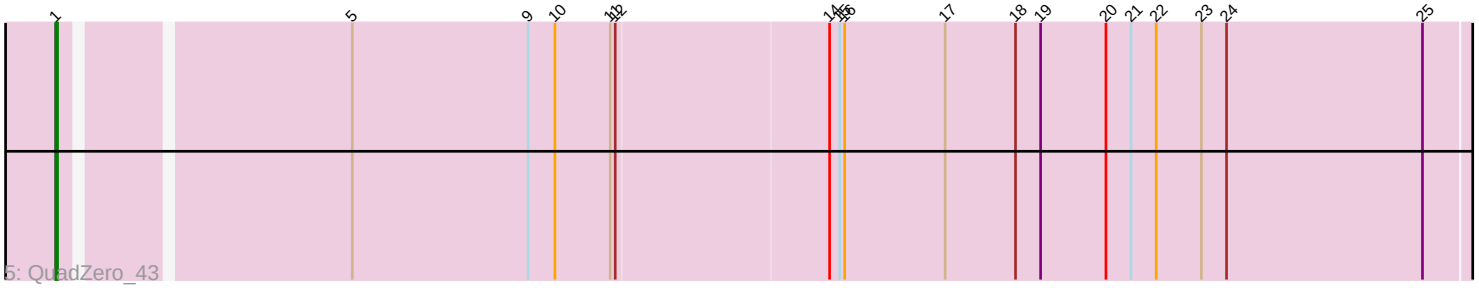
4: LilTerminator_43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5: QuadZero_43

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 197048 Report

This analysis was run 12/09/24 on database version 580.

Pham number 197048 has 10 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Mercedes_38
• Track 2 : Zepp_43, GreenIvy_42, Zayuliv_43
• Track 3 : CaptainRex_43, Fulton_43, Librie_43, Hasitha_43
• Track 4 : LilTerminator_43
• Track 5 : QuadZero_43

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 8 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• CaptainRex_43, Fulton_43, GreenIvy_42, Hasitha_43, Librie_43, LilTerminator_43, QuadZero_43, Zayuliv_43, Zepp_43,

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

Genes that do not have the "Most Annotated" start:
• Mercedes_38,

Summary by start number:

Start 1:
• Found in 9 of 10 (90.0%) of genes in pham
• Manual Annotations of this start: 8 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CaptainRex_43 (EA5), Fulton_43 (EA5), GreenIvy_42 (EA5), Hasitha_43 (EA5), Librie_43 (EA5), LilTerminator_43 (EA5), QuadZero_43 (EA5), Zayuliv_43 (EA5), Zepp_43 (EA5),

Start 2:
• Found in 1 of 10 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 9

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mercedes_38 (EA),

Summary by clusters:

There are 2 clusters represented in this pham: EA, EA5,

Info for manual annotations of cluster EA:
•Start number 2 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA5:
•Start number 1 was manually annotated 8 times for cluster EA5.

Gene Information:

Gene: CaptainRex_43 Start: 30427, Stop: 29567, Start Num: 1
Candidate Starts for CaptainRex_43:
(Start: 1 @30427 has 8 MA's), (5, 30268), (9, 30163), (10, 30148), (11, 30115), (12, 30112), (13, 30016), (14, 29989), (15, 29983), (16, 29980), (17, 29920), (18, 29878), (19, 29863), (20, 29824), (21, 29809), (22, 29794), (23, 29767), (24, 29752), (25, 29635),

Gene: Fulton_43 Start: 30428, Stop: 29568, Start Num: 1
Candidate Starts for Fulton_43:
(Start: 1 @30428 has 8 MA's), (5, 30269), (9, 30164), (10, 30149), (11, 30116), (12, 30113), (13, 30017), (14, 29990), (15, 29984), (16, 29981), (17, 29921), (18, 29879), (19, 29864), (20, 29825), (21, 29810), (22, 29795), (23, 29768), (24, 29753), (25, 29636),

Gene: GreenIvy_42 Start: 30783, Stop: 29908, Start Num: 1
Candidate Starts for GreenIvy_42:
(Start: 1 @30783 has 8 MA's), (3, 30702), (6, 30603), (8, 30546), (14, 30330), (15, 30324), (16, 30321), (17, 30261), (18, 30219), (19, 30204), (20, 30165), (21, 30150), (22, 30135), (23, 30108), (24, 30093), (25, 29976),

Gene: Hasitha_43 Start: 30440, Stop: 29580, Start Num: 1
Candidate Starts for Hasitha_43:
(Start: 1 @30440 has 8 MA's), (5, 30281), (9, 30176), (10, 30161), (11, 30128), (12, 30125), (13, 30029), (14, 30002), (15, 29996), (16, 29993), (17, 29933), (18, 29891), (19, 29876), (20, 29837), (21, 29822), (22, 29807), (23, 29780), (24, 29765), (25, 29648),

Gene: Librie_43 Start: 30427, Stop: 29567, Start Num: 1
Candidate Starts for Librie_43:
(Start: 1 @30427 has 8 MA's), (5, 30268), (9, 30163), (10, 30148), (11, 30115), (12, 30112), (13, 30016), (14, 29989), (15, 29983), (16, 29980), (17, 29920), (18, 29878), (19, 29863), (20, 29824), (21, 29809), (22, 29794), (23, 29767), (24, 29752), (25, 29635),

Gene: LilTerminator_43 Start: 30449, Stop: 29589, Start Num: 1
Candidate Starts for LilTerminator_43:
(Start: 1 @30449 has 8 MA's), (5, 30290), (9, 30185), (10, 30170), (11, 30137), (12, 30134), (14, 30011), (15, 30005), (16, 30002), (17, 29942), (18, 29900), (20, 29846), (21, 29831), (22, 29816), (23, 29789), (24, 29774), (25, 29657),

Gene: Mercedes_38 Start: 30460, Stop: 29597, Start Num: 2
Candidate Starts for Mercedes_38:
(Start: 2 @30460 has 1 MA's), (4, 30310), (5, 30295), (7, 30238), (8, 30235), (14, 30019), (15, 30013), (16, 30010), (17, 29950), (18, 29908), (19, 29893), (21, 29839), (22, 29824), (24, 29782), (25, 29665),

Gene: QuadZero_43 Start: 30594, Stop: 29737, Start Num: 1
Candidate Starts for QuadZero_43:
(Start: 1 @30594 has 8 MA's), (5, 30435), (9, 30330), (10, 30315), (11, 30282), (12, 30279), (14, 30156), (15, 30150), (16, 30147), (17, 30087), (18, 30045), (19, 30030), (20, 29991), (21, 29976), (22, 29961), (23, 29934), (24, 29919), (25, 29802),

Gene: Zayuliv_43 Start: 31065, Stop: 30190, Start Num: 1
Candidate Starts for Zayuliv_43:
(Start: 1 @31065 has 8 MA's), (3, 30984), (6, 30885), (8, 30828), (14, 30612), (15, 30606), (16, 30603), (17, 30543), (18, 30501), (19, 30486), (20, 30447), (21, 30432), (22, 30417), (23, 30390), (24, 30375), (25, 30258),

Gene: Zepp_43 Start: 30499, Stop: 29624, Start Num: 1
Candidate Starts for Zepp_43:
(Start: 1 @30499 has 8 MA's), (3, 30418), (6, 30319), (8, 30262), (14, 30046), (15, 30040), (16, 30037), (17, 29977), (18, 29935), (19, 29920), (20, 29881), (21, 29866), (22, 29851), (23, 29824), (24, 29809), (25, 29692),