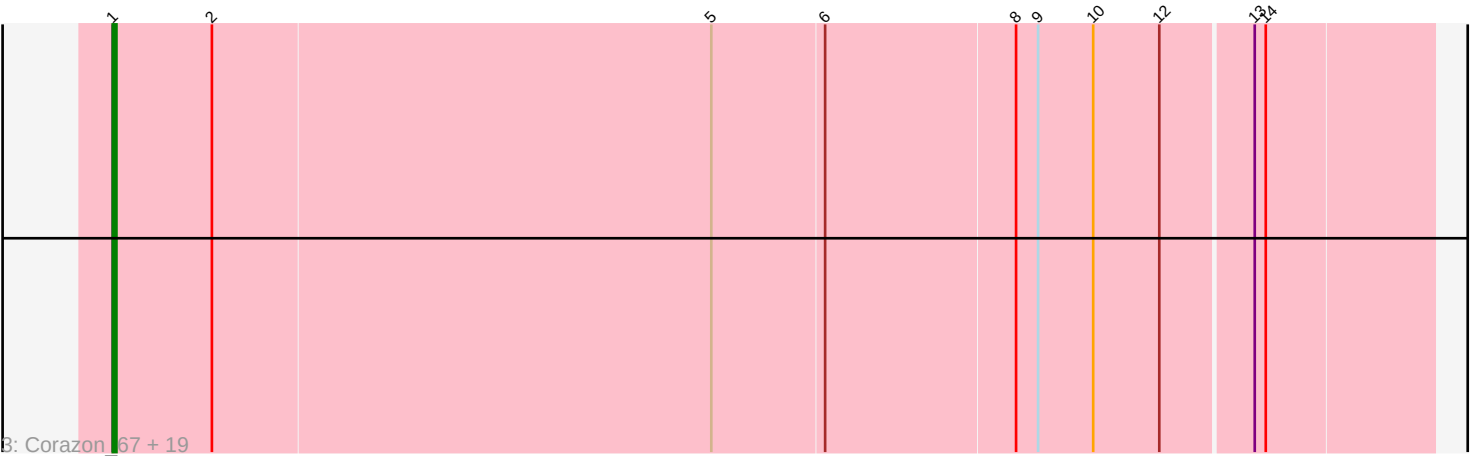
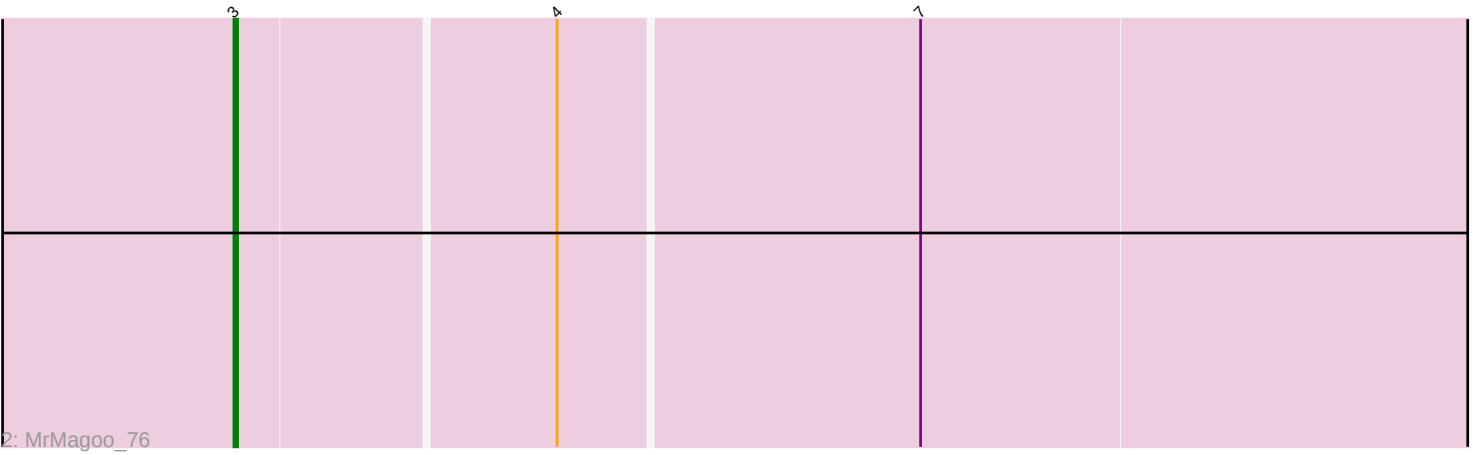
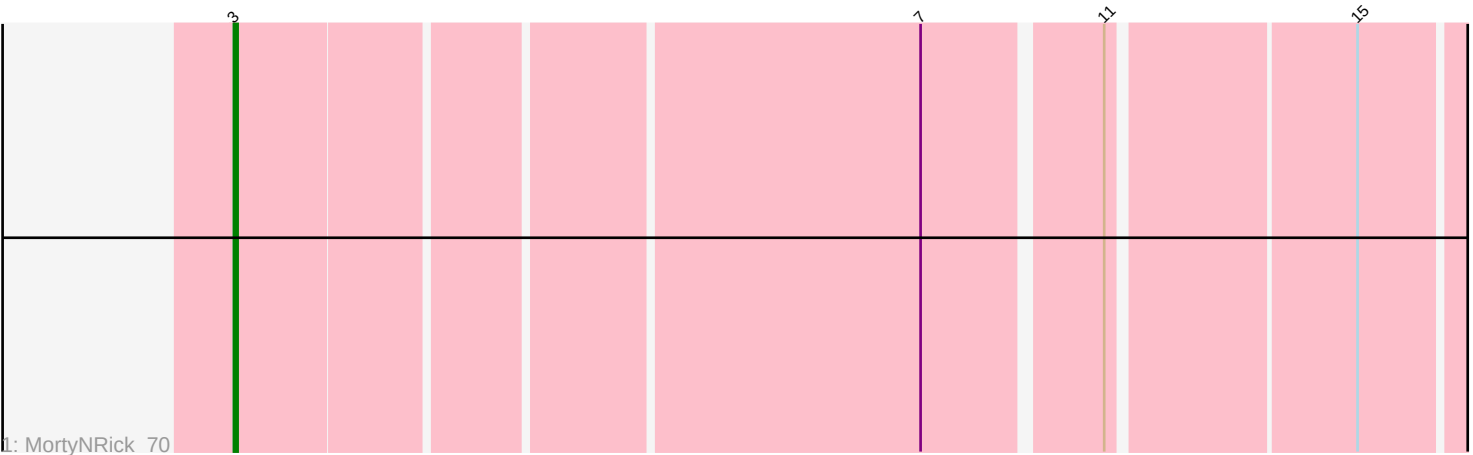




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 280862 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280862 has 22 members, 2 are drafts.

Phages represented in each track:

- Track 1 : MortyNRick_70
- Track 2 : MrMagoo_76
- Track 3 : Corazon_67, LittleLaf_69, GoongGoong_66, Marvin_65, Lilbit_67, FeliMaine_71, Pringar_68, VasuNzinga_68, Beelzebub_73, Blackbeetle_69, Gattaca_67, Clarkson_70, JoieB_70, MosMoris_66, Caprice_64, Raela_69, Tesla_66, Huphlebuff_71, Poise_69, RedRaider77_68

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 18 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub_73, Blackbeetle_69, Caprice_64, Clarkson_70, Corazon_67, FeliMaine_71, Gattaca_67, GoongGoong_66, Huphlebuff_71, JoieB_70, Lilbit_67, LittleLaf_69, Marvin_65, MosMoris_66, Poise_69, Pringar_68, Raela_69, RedRaider77_68, Tesla_66, VasuNzinga_68,

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

-

Genes that do not have the "Most Annotated" start:

- MortyNRick_70, MrMagoo_76,

Summary by start number:

Start 1:

- Found in 20 of 22 (90.9%) of genes in pham
- Manual Annotations of this start: 18 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beelzebub_73 (S), Blackbeetle_69 (S), Caprice_64 (S), Clarkson_70 (S), Corazon_67 (S), FeliMaine_71 (S), Gattaca_67 (S), GoongGoong_66 (S), Huphlebuff_71 (S), JoieB_70 (S), Lilbit_67 (S), LittleLaf_69 (S), Marvin_65 (S), MosMoris_66 (S), Poise_69 (S), Pringar_68 (S), Raela_69 (S),

RedRaider77_68 (S), Tesla_66 (S), VasuNzinga_68 (S),

Start 3:

- Found in 2 of 22 (9.1%) of genes in pham
- Manual Annotations of this start: 2 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MortyNRick_70 (DN), MrMagoo_76 (M2),

Summary by clusters:

There are 3 clusters represented in this pham: DN, S, M2,

Info for manual annotations of cluster DN:

- Start number 3 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster M2:

- Start number 3 was manually annotated 1 time for cluster M2.

Info for manual annotations of cluster S:

- Start number 1 was manually annotated 18 times for cluster S.

Gene Information:

Gene: Beelzebub_73 Start: 40109, Stop: 40462, Start Num: 1

Candidate Starts for Beelzebub_73:

(Start: 1 @40109 has 18 MA's), (2, 40136), (5, 40271), (6, 40301), (8, 40352), (9, 40358), (10, 40373), (12, 40391), (13, 40415), (14, 40418),

Gene: Blackbeetle_69 Start: 39121, Stop: 39474, Start Num: 1

Candidate Starts for Blackbeetle_69:

(Start: 1 @39121 has 18 MA's), (2, 39148), (5, 39283), (6, 39313), (8, 39364), (9, 39370), (10, 39385), (12, 39403), (13, 39427), (14, 39430),

Gene: Caprice_64 Start: 39435, Stop: 39788, Start Num: 1

Candidate Starts for Caprice_64:

(Start: 1 @39435 has 18 MA's), (2, 39462), (5, 39597), (6, 39627), (8, 39678), (9, 39684), (10, 39699), (12, 39717), (13, 39741), (14, 39744),

Gene: Clarkson_70 Start: 39837, Stop: 40190, Start Num: 1

Candidate Starts for Clarkson_70:

(Start: 1 @39837 has 18 MA's), (2, 39864), (5, 39999), (6, 40029), (8, 40080), (9, 40086), (10, 40101), (12, 40119), (13, 40143), (14, 40146),

Gene: Corazon_67 Start: 40031, Stop: 40384, Start Num: 1

Candidate Starts for Corazon_67:

(Start: 1 @40031 has 18 MA's), (2, 40058), (5, 40193), (6, 40223), (8, 40274), (9, 40280), (10, 40295), (12, 40313), (13, 40337), (14, 40340),

Gene: FeliMaine_71 Start: 40079, Stop: 40432, Start Num: 1

Candidate Starts for FeliMaine_71:

(Start: 1 @40079 has 18 MA's), (2, 40106), (5, 40241), (6, 40271), (8, 40322), (9, 40328), (10, 40343), (12, 40361), (13, 40385), (14, 40388),

Gene: Gattaca_67 Start: 39225, Stop: 39578, Start Num: 1

Candidate Starts for Gattaca_67:

(Start: 1 @39225 has 18 MA's), (2, 39252), (5, 39387), (6, 39417), (8, 39468), (9, 39474), (10, 39489), (12, 39507), (13, 39531), (14, 39534),

Gene: GoongGoong_66 Start: 39024, Stop: 39377, Start Num: 1

Candidate Starts for GoongGoong_66:

(Start: 1 @39024 has 18 MA's), (2, 39051), (5, 39186), (6, 39216), (8, 39267), (9, 39273), (10, 39288), (12, 39306), (13, 39330), (14, 39333),

Gene: Huphlebuff_71 Start: 39642, Stop: 39995, Start Num: 1

Candidate Starts for Huphlebuff_71:

(Start: 1 @39642 has 18 MA's), (2, 39669), (5, 39804), (6, 39834), (8, 39885), (9, 39891), (10, 39906), (12, 39924), (13, 39948), (14, 39951),

Gene: JoieB_70 Start: 40075, Stop: 40428, Start Num: 1

Candidate Starts for JoieB_70:

(Start: 1 @40075 has 18 MA's), (2, 40102), (5, 40237), (6, 40267), (8, 40318), (9, 40324), (10, 40339), (12, 40357), (13, 40381), (14, 40384),

Gene: Lilbit_67 Start: 39805, Stop: 40158, Start Num: 1

Candidate Starts for Lilbit_67:

(Start: 1 @39805 has 18 MA's), (2, 39832), (5, 39967), (6, 39997), (8, 40048), (9, 40054), (10, 40069), (12, 40087), (13, 40111), (14, 40114),

Gene: LittleLaf_69 Start: 39534, Stop: 39887, Start Num: 1

Candidate Starts for LittleLaf_69:

(Start: 1 @39534 has 18 MA's), (2, 39561), (5, 39696), (6, 39726), (8, 39777), (9, 39783), (10, 39798), (12, 39816), (13, 39840), (14, 39843),

Gene: Marvin_65 Start: 39295, Stop: 39648, Start Num: 1

Candidate Starts for Marvin_65:

(Start: 1 @39295 has 18 MA's), (2, 39322), (5, 39457), (6, 39487), (8, 39538), (9, 39544), (10, 39559), (12, 39577), (13, 39601), (14, 39604),

Gene: MortyNRick_70 Start: 44625, Stop: 44951, Start Num: 3

Candidate Starts for MortyNRick_70:

(Start: 3 @44625 has 2 MA's), (7, 44802), (11, 44847), (15, 44910),

Gene: MosMoris_66 Start: 39225, Stop: 39578, Start Num: 1

Candidate Starts for MosMoris_66:

(Start: 1 @39225 has 18 MA's), (2, 39252), (5, 39387), (6, 39417), (8, 39468), (9, 39474), (10, 39489), (12, 39507), (13, 39531), (14, 39534),

Gene: MrMagoo_76 Start: 46031, Stop: 46429, Start Num: 3

Candidate Starts for MrMagoo_76:

(Start: 3 @46031 has 2 MA's), (4, 46115), (7, 46211),

Gene: Poise_69 Start: 39121, Stop: 39474, Start Num: 1

Candidate Starts for Poise_69:

(Start: 1 @39121 has 18 MA's), (2, 39148), (5, 39283), (6, 39313), (8, 39364), (9, 39370), (10, 39385), (12, 39403), (13, 39427), (14, 39430),

Gene: Pringar_68 Start: 39443, Stop: 39796, Start Num: 1

Candidate Starts for Pringar_68:

(Start: 1 @39443 has 18 MA's), (2, 39470), (5, 39605), (6, 39635), (8, 39686), (9, 39692), (10, 39707), (12, 39725), (13, 39749), (14, 39752),

Gene: Raela_69 Start: 39678, Stop: 40031, Start Num: 1

Candidate Starts for Raela_69:

(Start: 1 @39678 has 18 MA's), (2, 39705), (5, 39840), (6, 39870), (8, 39921), (9, 39927), (10, 39942), (12, 39960), (13, 39984), (14, 39987),

Gene: RedRaider77_68 Start: 39066, Stop: 39419, Start Num: 1

Candidate Starts for RedRaider77_68:

(Start: 1 @39066 has 18 MA's), (2, 39093), (5, 39228), (6, 39258), (8, 39309), (9, 39315), (10, 39330), (12, 39348), (13, 39372), (14, 39375),

Gene: Tesla_66 Start: 38915, Stop: 39268, Start Num: 1

Candidate Starts for Tesla_66:

(Start: 1 @38915 has 18 MA's), (2, 38942), (5, 39077), (6, 39107), (8, 39158), (9, 39164), (10, 39179), (12, 39197), (13, 39221), (14, 39224),

Gene: VasuNzinga_68 Start: 39017, Stop: 39370, Start Num: 1

Candidate Starts for VasuNzinga_68:

(Start: 1 @39017 has 18 MA's), (2, 39044), (5, 39179), (6, 39209), (8, 39260), (9, 39266), (10, 39281), (12, 39299), (13, 39323), (14, 39326),