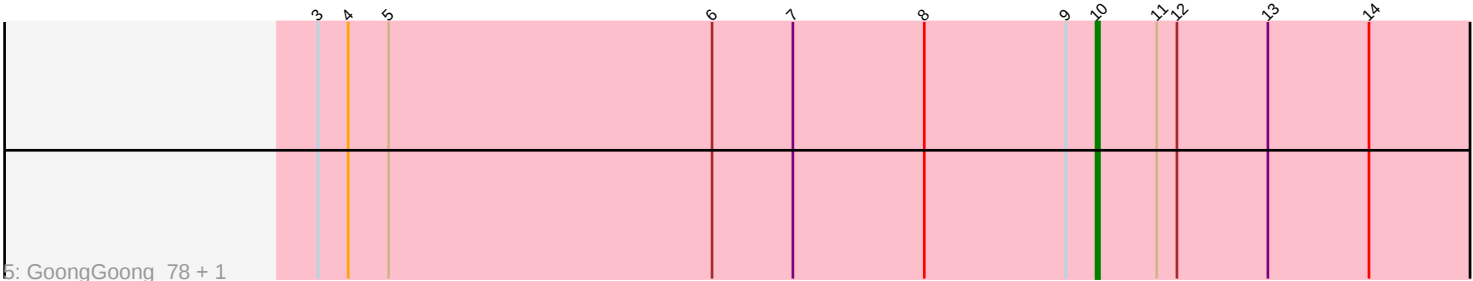
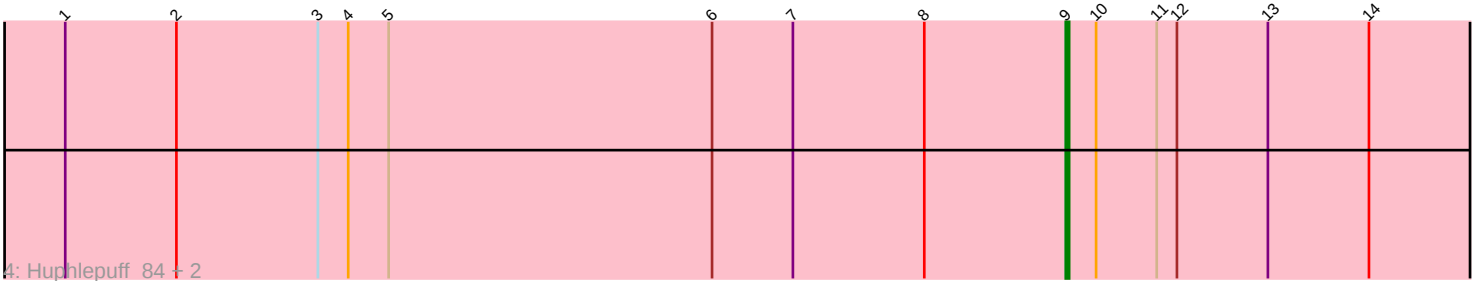
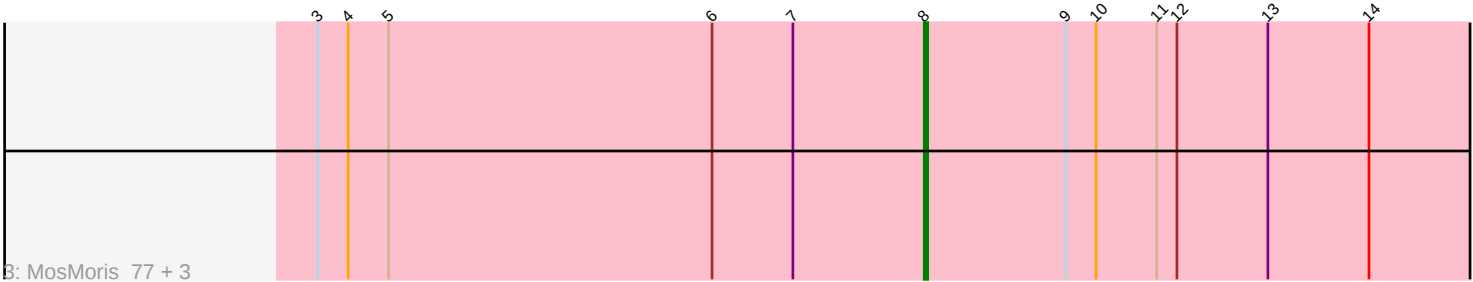
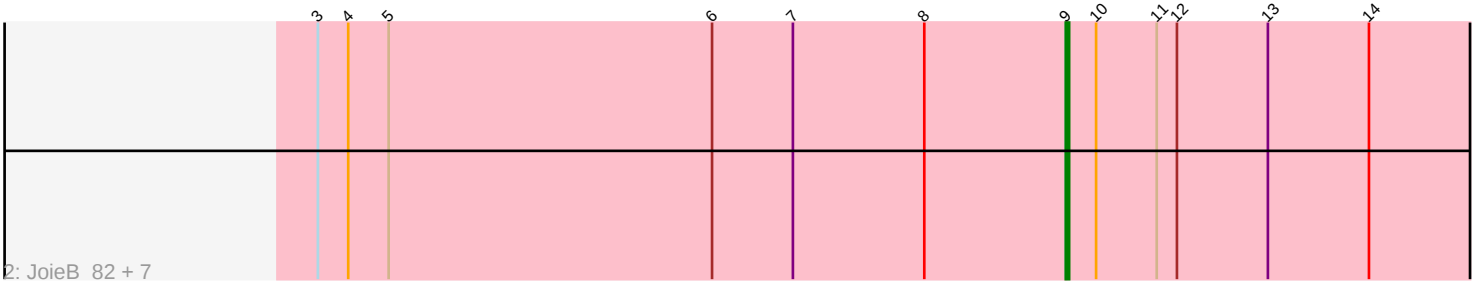
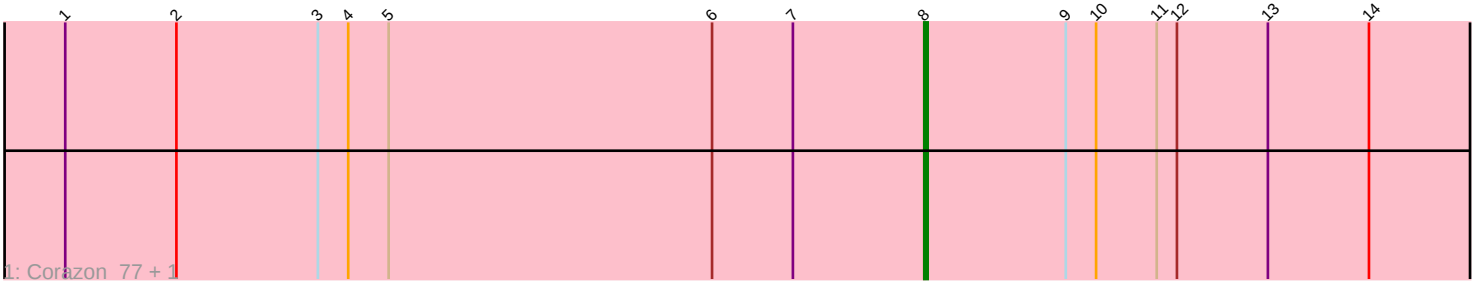


Pham 239251



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 239251 Report

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

Pham number 239251 has 19 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Corazon_77, Pringar_78
- Track 2 : JoieB_82, Blackbeetle_82, Caprice_74, LittleLaf_80, RedRaider77_81, Poise_82, Raela_83, Lilbit_78
- Track 3 : MosMoris_77, VasuNzinga_79, Marvin_76, Tesla_77
- Track 4 : Huphlepuuff_84, Beelzebub_86, Clarkson_83
- Track 5 : GoongGoong_78, Gattaca_79

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

The start number called the most often in the published annotations is 9, it was called in 10 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub_86, Blackbeetle_82, Caprice_74, Clarkson_83, Huphlepuuff_84, JoieB_82, Lilbit_78, LittleLaf_80, Poise_82, Raela_83, RedRaider77_81,

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

- Corazon_77, Gattaca_79, GoongGoong_78, Marvin_76, MosMoris_77, Pringar_78, Tesla_77, VasuNzinga_79,

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

-

Summary by start number:

Start 8:

- Found in 19 of 19 (100.0%) of genes in pham
- Manual Annotations of this start: 6 of 17
- Called 31.6% of time when present
- Phage (with cluster) where this start called: Corazon_77 (S), Marvin_76 (S), MosMoris_77 (S), Pringar_78 (S), Tesla_77 (S), VasuNzinga_79 (S),

Start 9:

- Found in 19 of 19 (100.0%) of genes in pham

- Manual Annotations of this start: 10 of 17
- Called 57.9% of time when present
- Phage (with cluster) where this start called: Beelzebub_86 (S), Blackbeetle_82 (S), Caprice_74 (S), Clarkson_83 (S), Huphlepuff_84 (S), JoieB_82 (S), Lilbit_78 (S), LittleLaf_80 (S), Poise_82 (S), Raela_83 (S), RedRaider77_81 (S),

Start 10:

- Found in 19 of 19 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 10.5% of time when present
- Phage (with cluster) where this start called: Gattaca_79 (S), GoongGoong_78 (S),

Summary by clusters:

There is one cluster represented in this pham: S

Info for manual annotations of cluster S:

- Start number 8 was manually annotated 6 times for cluster S.
- Start number 9 was manually annotated 10 times for cluster S.
- Start number 10 was manually annotated 1 time for cluster S.

Gene Information:

Gene: Beelzebub_86 Start: 44630, Stop: 44785, Start Num: 9

Candidate Starts for Beelzebub_86:

(1, 44333), (2, 44366), (3, 44408), (4, 44417), (5, 44429), (6, 44525), (7, 44549), (Start: 8 @44588 has 6 MA's), (Start: 9 @44630 has 10 MA's), (Start: 10 @44639 has 1 MA's), (11, 44657), (12, 44663), (13, 44690), (14, 44720),

Gene: Blackbeetle_82 Start: 43991, Stop: 44146, Start Num: 9

Candidate Starts for Blackbeetle_82:

(3, 43769), (4, 43778), (5, 43790), (6, 43886), (7, 43910), (Start: 8 @43949 has 6 MA's), (Start: 9 @43991 has 10 MA's), (Start: 10 @44000 has 1 MA's), (11, 44018), (12, 44024), (13, 44051), (14, 44081),

Gene: Caprice_74 Start: 43929, Stop: 44084, Start Num: 9

Candidate Starts for Caprice_74:

(3, 43707), (4, 43716), (5, 43728), (6, 43824), (7, 43848), (Start: 8 @43887 has 6 MA's), (Start: 9 @43929 has 10 MA's), (Start: 10 @43938 has 1 MA's), (11, 43956), (12, 43962), (13, 43989), (14, 44019),

Gene: Clarkson_83 Start: 44310, Stop: 44465, Start Num: 9

Candidate Starts for Clarkson_83:

(1, 44013), (2, 44046), (3, 44088), (4, 44097), (5, 44109), (6, 44205), (7, 44229), (Start: 8 @44268 has 6 MA's), (Start: 9 @44310 has 10 MA's), (Start: 10 @44319 has 1 MA's), (11, 44337), (12, 44343), (13, 44370), (14, 44400),

Gene: Corazon_77 Start: 44462, Stop: 44659, Start Num: 8

Candidate Starts for Corazon_77:

(1, 44207), (2, 44240), (3, 44282), (4, 44291), (5, 44303), (6, 44399), (7, 44423), (Start: 8 @44462 has 6 MA's), (Start: 9 @44504 has 10 MA's), (Start: 10 @44513 has 1 MA's), (11, 44531), (12, 44537), (13,

44564), (14, 44594),

Gene: Gattaca_79 Start: 44098, Stop: 44244, Start Num: 10

Candidate Starts for Gattaca_79:

(3, 43867), (4, 43876), (5, 43888), (6, 43984), (7, 44008), (Start: 8 @44047 has 6 MA's), (Start: 9 @44089 has 10 MA's), (Start: 10 @44098 has 1 MA's), (11, 44116), (12, 44122), (13, 44149), (14, 44179),

Gene: GoongGoong_78 Start: 43903, Stop: 44049, Start Num: 10

Candidate Starts for GoongGoong_78:

(3, 43672), (4, 43681), (5, 43693), (6, 43789), (7, 43813), (Start: 8 @43852 has 6 MA's), (Start: 9 @43894 has 10 MA's), (Start: 10 @43903 has 1 MA's), (11, 43921), (12, 43927), (13, 43954), (14, 43984),

Gene: Huphlebuff_84 Start: 44115, Stop: 44270, Start Num: 9

Candidate Starts for Huphlebuff_84:

(1, 43818), (2, 43851), (3, 43893), (4, 43902), (5, 43914), (6, 44010), (7, 44034), (Start: 8 @44073 has 6 MA's), (Start: 9 @44115 has 10 MA's), (Start: 10 @44124 has 1 MA's), (11, 44142), (12, 44148), (13, 44175), (14, 44205),

Gene: JoieB_82 Start: 44578, Stop: 44733, Start Num: 9

Candidate Starts for JoieB_82:

(3, 44356), (4, 44365), (5, 44377), (6, 44473), (7, 44497), (Start: 8 @44536 has 6 MA's), (Start: 9 @44578 has 10 MA's), (Start: 10 @44587 has 1 MA's), (11, 44605), (12, 44611), (13, 44638), (14, 44668),

Gene: Lilbit_78 Start: 44675, Stop: 44830, Start Num: 9

Candidate Starts for Lilbit_78:

(3, 44453), (4, 44462), (5, 44474), (6, 44570), (7, 44594), (Start: 8 @44633 has 6 MA's), (Start: 9 @44675 has 10 MA's), (Start: 10 @44684 has 1 MA's), (11, 44702), (12, 44708), (13, 44735), (14, 44765),

Gene: LittleLaf_80 Start: 44404, Stop: 44559, Start Num: 9

Candidate Starts for LittleLaf_80:

(3, 44182), (4, 44191), (5, 44203), (6, 44299), (7, 44323), (Start: 8 @44362 has 6 MA's), (Start: 9 @44404 has 10 MA's), (Start: 10 @44413 has 1 MA's), (11, 44431), (12, 44437), (13, 44464), (14, 44494),

Gene: Marvin_76 Start: 44158, Stop: 44355, Start Num: 8

Candidate Starts for Marvin_76:

(3, 43978), (4, 43987), (5, 43999), (6, 44095), (7, 44119), (Start: 8 @44158 has 6 MA's), (Start: 9 @44200 has 10 MA's), (Start: 10 @44209 has 1 MA's), (11, 44227), (12, 44233), (13, 44260), (14, 44290),

Gene: MosMoris_77 Start: 44053, Stop: 44250, Start Num: 8

Candidate Starts for MosMoris_77:

(3, 43873), (4, 43882), (5, 43894), (6, 43990), (7, 44014), (Start: 8 @44053 has 6 MA's), (Start: 9 @44095 has 10 MA's), (Start: 10 @44104 has 1 MA's), (11, 44122), (12, 44128), (13, 44155), (14, 44185),

Gene: Poise_82 Start: 43991, Stop: 44146, Start Num: 9

Candidate Starts for Poise_82:

(3, 43769), (4, 43778), (5, 43790), (6, 43886), (7, 43910), (Start: 8 @43949 has 6 MA's), (Start: 9 @43991 has 10 MA's), (Start: 10 @44000 has 1 MA's), (11, 44018), (12, 44024), (13, 44051), (14, 44081),

Gene: Pringar_78 Start: 43874, Stop: 44071, Start Num: 8

Candidate Starts for Pringar_78:

(1, 43619), (2, 43652), (3, 43694), (4, 43703), (5, 43715), (6, 43811), (7, 43835), (Start: 8 @43874 has 6 MA's), (Start: 9 @43916 has 10 MA's), (Start: 10 @43925 has 1 MA's), (11, 43943), (12, 43949), (13, 43976), (14, 44006),

Gene: Raela_83 Start: 44542, Stop: 44697, Start Num: 9

Candidate Starts for Raela_83:

(3, 44320), (4, 44329), (5, 44341), (6, 44437), (7, 44461), (Start: 8 @44500 has 6 MA's), (Start: 9 @44542 has 10 MA's), (Start: 10 @44551 has 1 MA's), (11, 44569), (12, 44575), (13, 44602), (14, 44632),

Gene: RedRaider77_81 Start: 43936, Stop: 44091, Start Num: 9

Candidate Starts for RedRaider77_81:

(3, 43714), (4, 43723), (5, 43735), (6, 43831), (7, 43855), (Start: 8 @43894 has 6 MA's), (Start: 9 @43936 has 10 MA's), (Start: 10 @43945 has 1 MA's), (11, 43963), (12, 43969), (13, 43996), (14, 44026),

Gene: Tesla_77 Start: 43743, Stop: 43940, Start Num: 8

Candidate Starts for Tesla_77:

(3, 43563), (4, 43572), (5, 43584), (6, 43680), (7, 43704), (Start: 8 @43743 has 6 MA's), (Start: 9 @43785 has 10 MA's), (Start: 10 @43794 has 1 MA's), (11, 43812), (12, 43818), (13, 43845), (14, 43875),

Gene: VasuNzinga_79 Start: 43832, Stop: 44029, Start Num: 8

Candidate Starts for VasuNzinga_79:

(3, 43652), (4, 43661), (5, 43673), (6, 43769), (7, 43793), (Start: 8 @43832 has 6 MA's), (Start: 9 @43874 has 10 MA's), (Start: 10 @43883 has 1 MA's), (11, 43901), (12, 43907), (13, 43934), (14, 43964),