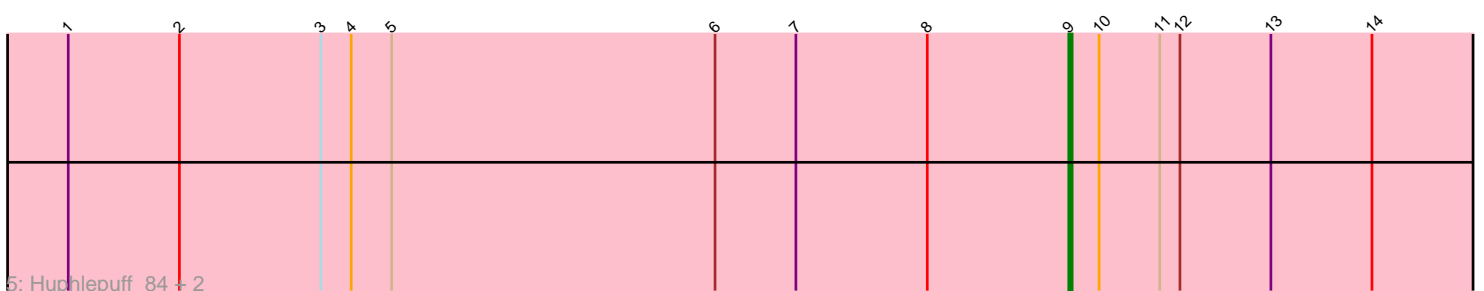
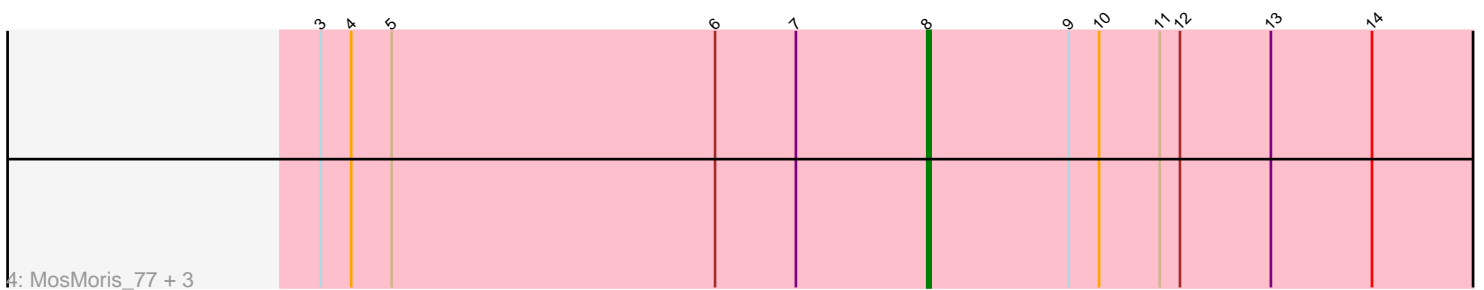
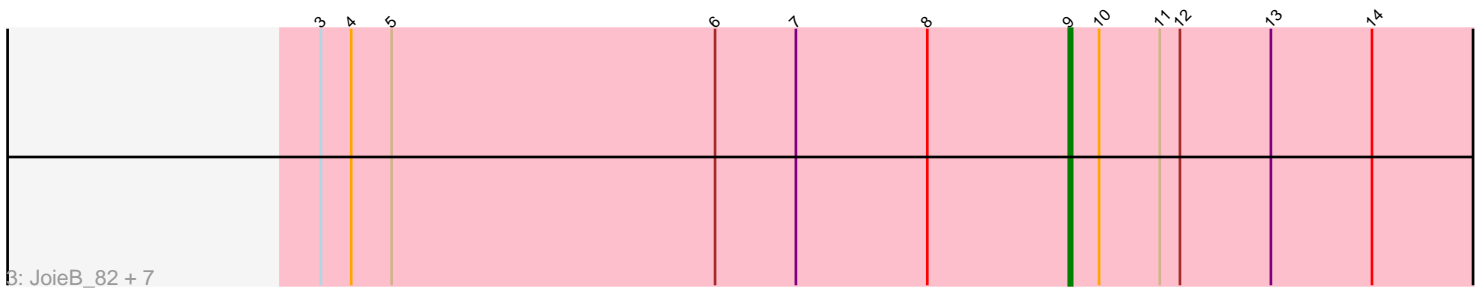
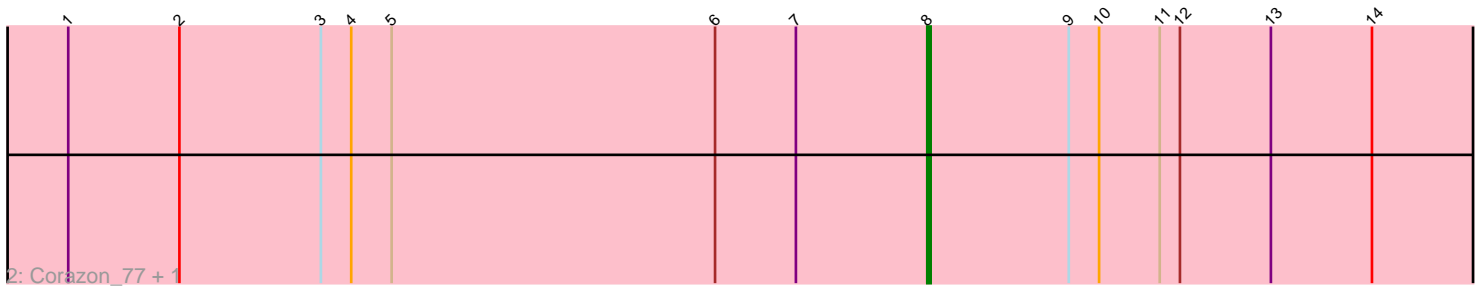
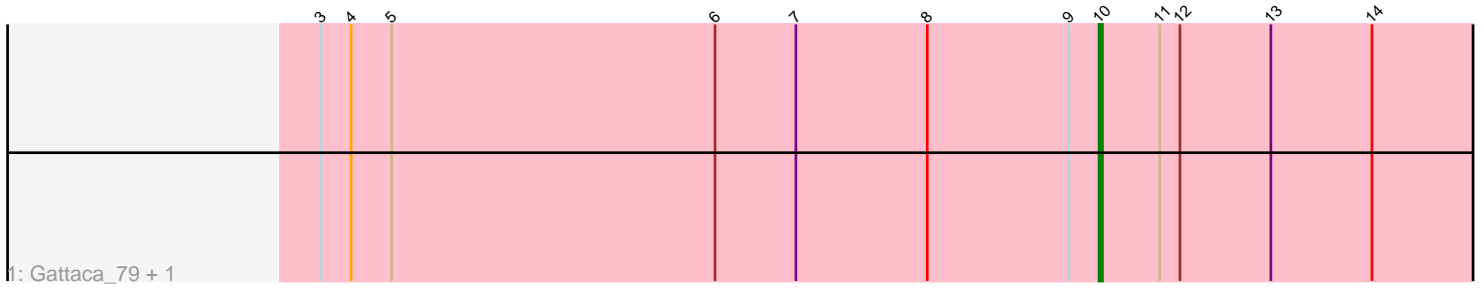


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 207235 Report

This analysis was run 02/22/25 on database version 588.

Pham number 207235 has 19 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Gattaca\_79, GoongGoong\_78
- Track 2 : Corazon\_77, Pringar\_78
- Track 3 : JoieB\_82, Blackbeetle\_82, Caprice\_74, LittleLaf\_80, RedRaider77\_81, Poise\_82, Raela\_83, Lilbit\_80
- Track 4 : MosMoris\_77, VasuNzinga\_79, Marvin\_76, Tesla\_77
- Track 5 : Huphlebuff\_84, Beelzebub\_86, Clarkson\_83

### ***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 9 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub\_86, Blackbeetle\_82, Caprice\_74, Clarkson\_83, Huphlebuff\_84, JoieB\_82, Lilbit\_80, 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 16
- 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: 9 of 16
- 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), Huphlepuuff\_84 (S), JoieB\_82 (S), Lilbit\_80 (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 16
- 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 9 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 9 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 9 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 9 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 9 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 9 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 9 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 9 MA's), (Start: 10 @43903 has 1 MA's), (11, 43921), (12, 43927), (13, 43954), (14, 43984),

Gene: Huphlepuuff\_84 Start: 44115, Stop: 44270, Start Num: 9

Candidate Starts for Huphlepuuff\_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 9 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 9 MA's), (Start: 10 @44587 has 1 MA's), (11, 44605), (12, 44611), (13, 44638), (14, 44668),

Gene: Lilbit\_80 Start: 44675, Stop: 44830, Start Num: 9

Candidate Starts for Lilbit\_80:

(3, 44453), (4, 44462), (5, 44474), (6, 44570), (7, 44594), (Start: 8 @44633 has 6 MA's), (Start: 9 @44675 has 9 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 9 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 9 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 9 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 9 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 9 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 9 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 9 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 9 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 9 MA's), (Start: 10 @43883 has 1 MA's), (11, 43901), (12, 43907), (13, 43934), (14, 43964),