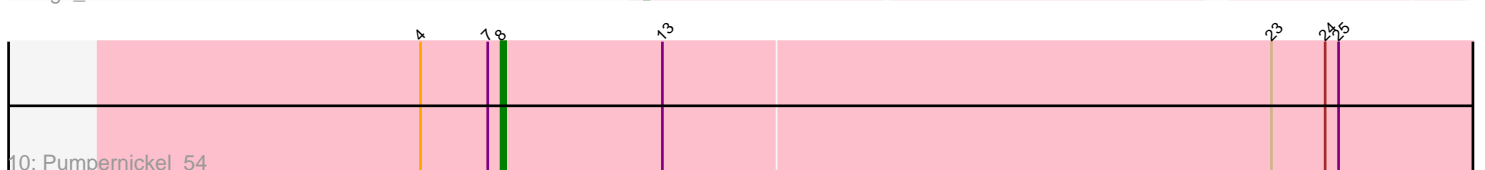
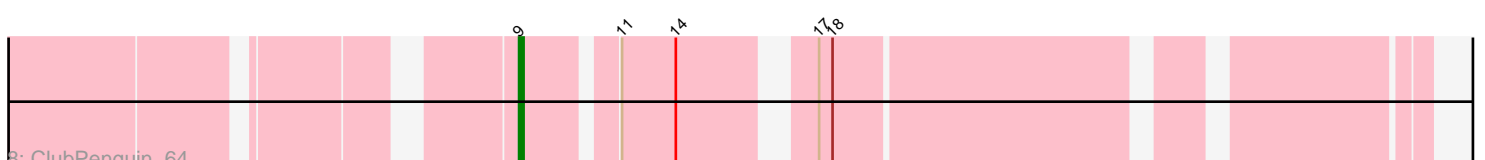
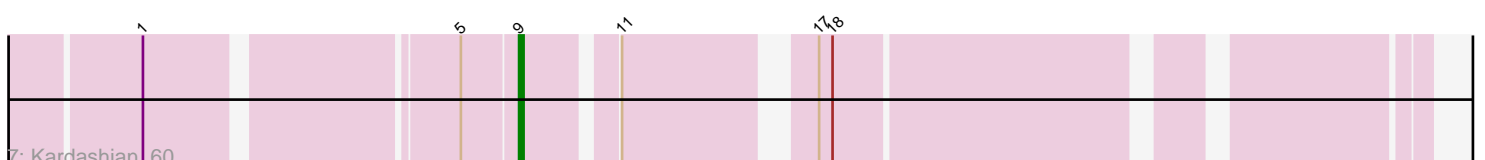
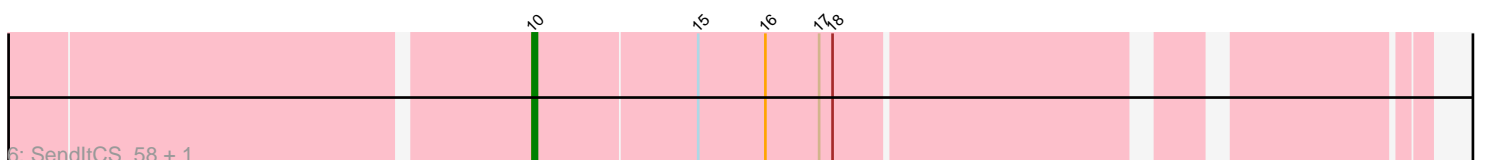
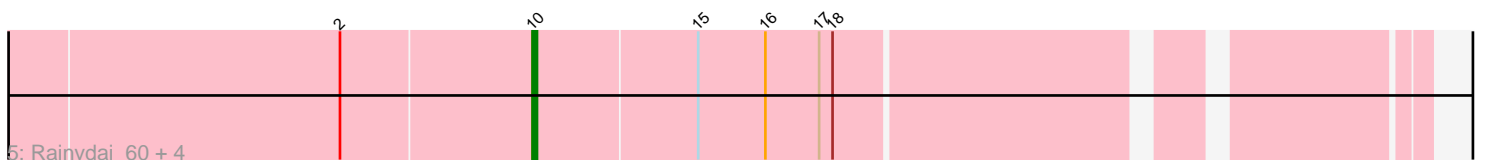
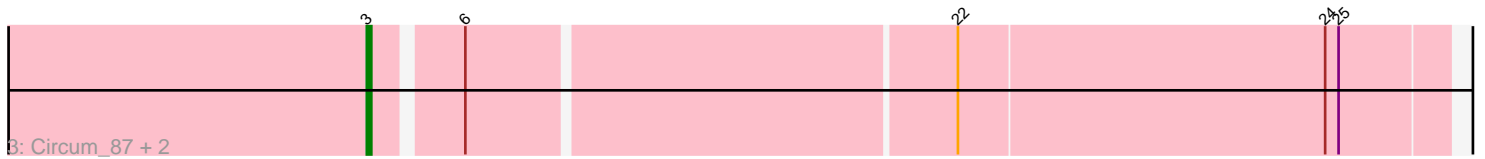
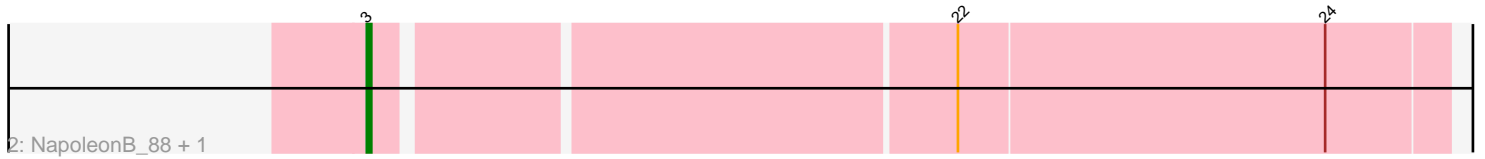
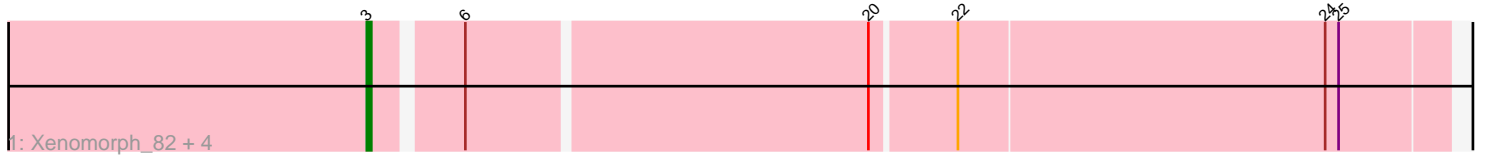


Pham 309249



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 309249 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309249 has 22 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Xenomorph_82, Tribby_89, Cheesy_88, JEGGS_86, Heisenberger_86
- Track 2 : NapoleonB_88, Dynamite_87
- Track 3 : Circum_87, KeaneyLin_84, Bowling_89
- Track 4 : Powelldog_82
- Track 5 : Rainydai_60, FromIndy_62, CricKo_62, Thiqqums_62, Regigigas_63
- Track 6 : SendItCS_58, Miek_59
- Track 7 : Kardashian_60
- Track 8 : ClubPenguin_64
- Track 9 : Big4_197
- Track 10 : Pumpernickel_54

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

The start number called the most often in the published annotations is 3, it was called in 10 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bowling_89, Cheesy_88, Circum_87, Dynamite_87, Heisenberger_86, JEGGS_86, KeaneyLin_84, NapoleonB_88, Tribby_89, Xenomorph_82,

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

- Powelldog_82,

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

- Big4_197, ClubPenguin_64, CricKo_62, FromIndy_62, Kardashian_60, Miek_59, Pumpernickel_54, Rainydai_60, Regigigas_63, SendItCS_58, Thiqqums_62,

Summary by start number:

Start 3:

- Found in 11 of 22 (50.0%) of genes in pham
- Manual Annotations of this start: 10 of 20
- Called 90.9% of time when present

- Phage (with cluster) where this start called: Bowling_89 (AM), Cheesy_88 (AM), Circum_87 (AM), Dynamite_87 (AM), Heisenberger_86 (AM), JEGGS_86 (AM), KeaneyLin_84 (AM), NapoleonB_88 (AM), Tribby_89 (AM), Xenomorph_82 (AM),

Start 8:

- Found in 1 of 22 (4.5%) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pumpernickel_54 (GD4),

Start 9:

- Found in 3 of 22 (13.6%) of genes in pham
- Manual Annotations of this start: 3 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ClubPenguin_64 (BI7), Kardashian_60 (BI6), PowellDog_82 (AW),

Start 10:

- Found in 7 of 22 (31.8%) of genes in pham
- Manual Annotations of this start: 5 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CricKo_62 (BI4), FromIndy_62 (BI4), Miek_59 (BI4), Rainydai_60 (BI4), Regigigas_63 (BI4), SendItCS_58 (BI4), Thiqqums_62 (BI4),

Start 12:

- Found in 1 of 22 (4.5%) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Big4_197 (GD2),

Summary by clusters:

There are 7 clusters represented in this pham: GD2, GD4, AM, AW, BI6, BI7, BI4,

Info for manual annotations of cluster AM:

- Start number 3 was manually annotated 10 times for cluster AM.

Info for manual annotations of cluster AW:

- Start number 9 was manually annotated 1 time for cluster AW.

Info for manual annotations of cluster BI4:

- Start number 10 was manually annotated 5 times for cluster BI4.

Info for manual annotations of cluster BI6:

- Start number 9 was manually annotated 1 time for cluster BI6.

Info for manual annotations of cluster BI7:

- Start number 9 was manually annotated 1 time for cluster BI7.

Info for manual annotations of cluster GD2:

- Start number 12 was manually annotated 1 time for cluster GD2.

Info for manual annotations of cluster GD4:

•Start number 8 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: Big4_197 Start: 109545, Stop: 109372, Start Num: 12

Candidate Starts for Big4_197:

(Start: 12 @109545 has 1 MA's),

Gene: Bowling_89 Start: 52137, Stop: 52367, Start Num: 3

Candidate Starts for Bowling_89:

(Start: 3 @52137 has 10 MA's), (6, 52155), (22, 52260), (24, 52341), (25, 52344),

Gene: Cheesy_88 Start: 51576, Stop: 51806, Start Num: 3

Candidate Starts for Cheesy_88:

(Start: 3 @51576 has 10 MA's), (6, 51594), (20, 51681), (22, 51699), (24, 51780), (25, 51783),

Gene: Circum_87 Start: 51633, Stop: 51863, Start Num: 3

Candidate Starts for Circum_87:

(Start: 3 @51633 has 10 MA's), (6, 51651), (22, 51756), (24, 51837), (25, 51840),

Gene: ClubPenguin_64 Start: 42352, Stop: 42525, Start Num: 9

Candidate Starts for ClubPenguin_64:

(Start: 9 @42352 has 3 MA's), (11, 42370), (14, 42382), (17, 42406), (18, 42409),

Gene: CricKo_62 Start: 41498, Stop: 41680, Start Num: 10

Candidate Starts for CricKo_62:

(2, 41456), (Start: 10 @41498 has 5 MA's), (15, 41534), (16, 41549), (17, 41561), (18, 41564),

Gene: Dynamite_87 Start: 51149, Stop: 51379, Start Num: 3

Candidate Starts for Dynamite_87:

(Start: 3 @51149 has 10 MA's), (22, 51272), (24, 51353),

Gene: FromIndy_62 Start: 41104, Stop: 41286, Start Num: 10

Candidate Starts for FromIndy_62:

(2, 41062), (Start: 10 @41104 has 5 MA's), (15, 41140), (16, 41155), (17, 41167), (18, 41170),

Gene: Heisenberger_86 Start: 51041, Stop: 51271, Start Num: 3

Candidate Starts for Heisenberger_86:

(Start: 3 @51041 has 10 MA's), (6, 51059), (20, 51146), (22, 51164), (24, 51245), (25, 51248),

Gene: JEGGS_86 Start: 51120, Stop: 51350, Start Num: 3

Candidate Starts for JEGGS_86:

(Start: 3 @51120 has 10 MA's), (6, 51138), (20, 51225), (22, 51243), (24, 51324), (25, 51327),

Gene: Kardashian_60 Start: 42676, Stop: 42849, Start Num: 9

Candidate Starts for Kardashian_60:

(1, 42601), (5, 42664), (Start: 9 @42676 has 3 MA's), (11, 42694), (17, 42730), (18, 42733),

Gene: KeaneyLin_84 Start: 50855, Stop: 51085, Start Num: 3

Candidate Starts for KeaneyLin_84:

(Start: 3 @50855 has 10 MA's), (6, 50873), (22, 50978), (24, 51059), (25, 51062),

Gene: Miek_59 Start: 40766, Stop: 40948, Start Num: 10

Candidate Starts for Miek_59:

(Start: 10 @40766 has 5 MA's), (15, 40802), (16, 40817), (17, 40829), (18, 40832),

Gene: NapoleonB_88 Start: 51149, Stop: 51379, Start Num: 3

Candidate Starts for NapoleonB_88:

(Start: 3 @51149 has 10 MA's), (22, 51272), (24, 51353),

Gene: Powelldog_82 Start: 49848, Stop: 50018, Start Num: 9

Candidate Starts for Powelldog_82:

(Start: 3 @49818 has 10 MA's), (Start: 9 @49848 has 3 MA's), (19, 49920), (20, 49926), (21, 49932), (22, 49944), (24, 49995),

Gene: Pumpernickel_54 Start: 20505, Stop: 20269, Start Num: 8

Candidate Starts for Pumpernickel_54:

(4, 20523), (7, 20508), (Start: 8 @20505 has 1 MA's), (13, 20469), (23, 20334), (24, 20322), (25, 20319),

Gene: Rainydai_60 Start: 41498, Stop: 41680, Start Num: 10

Candidate Starts for Rainydai_60:

(2, 41456), (Start: 10 @41498 has 5 MA's), (15, 41534), (16, 41549), (17, 41561), (18, 41564),

Gene: Regigigas_63 Start: 41499, Stop: 41681, Start Num: 10

Candidate Starts for Regigigas_63:

(2, 41457), (Start: 10 @41499 has 5 MA's), (15, 41535), (16, 41550), (17, 41562), (18, 41565),

Gene: SendItCS_58 Start: 40754, Stop: 40936, Start Num: 10

Candidate Starts for SendItCS_58:

(Start: 10 @40754 has 5 MA's), (15, 40790), (16, 40805), (17, 40817), (18, 40820),

Gene: Thiqqums_62 Start: 41498, Stop: 41680, Start Num: 10

Candidate Starts for Thiqqums_62:

(2, 41456), (Start: 10 @41498 has 5 MA's), (15, 41534), (16, 41549), (17, 41561), (18, 41564),

Gene: Tribby_89 Start: 51911, Stop: 52141, Start Num: 3

Candidate Starts for Tribby_89:

(Start: 3 @51911 has 10 MA's), (6, 51929), (20, 52016), (22, 52034), (24, 52115), (25, 52118),

Gene: Xenomorph_82 Start: 51438, Stop: 51668, Start Num: 3

Candidate Starts for Xenomorph_82:

(Start: 3 @51438 has 10 MA's), (6, 51456), (20, 51543), (22, 51561), (24, 51642), (25, 51645),