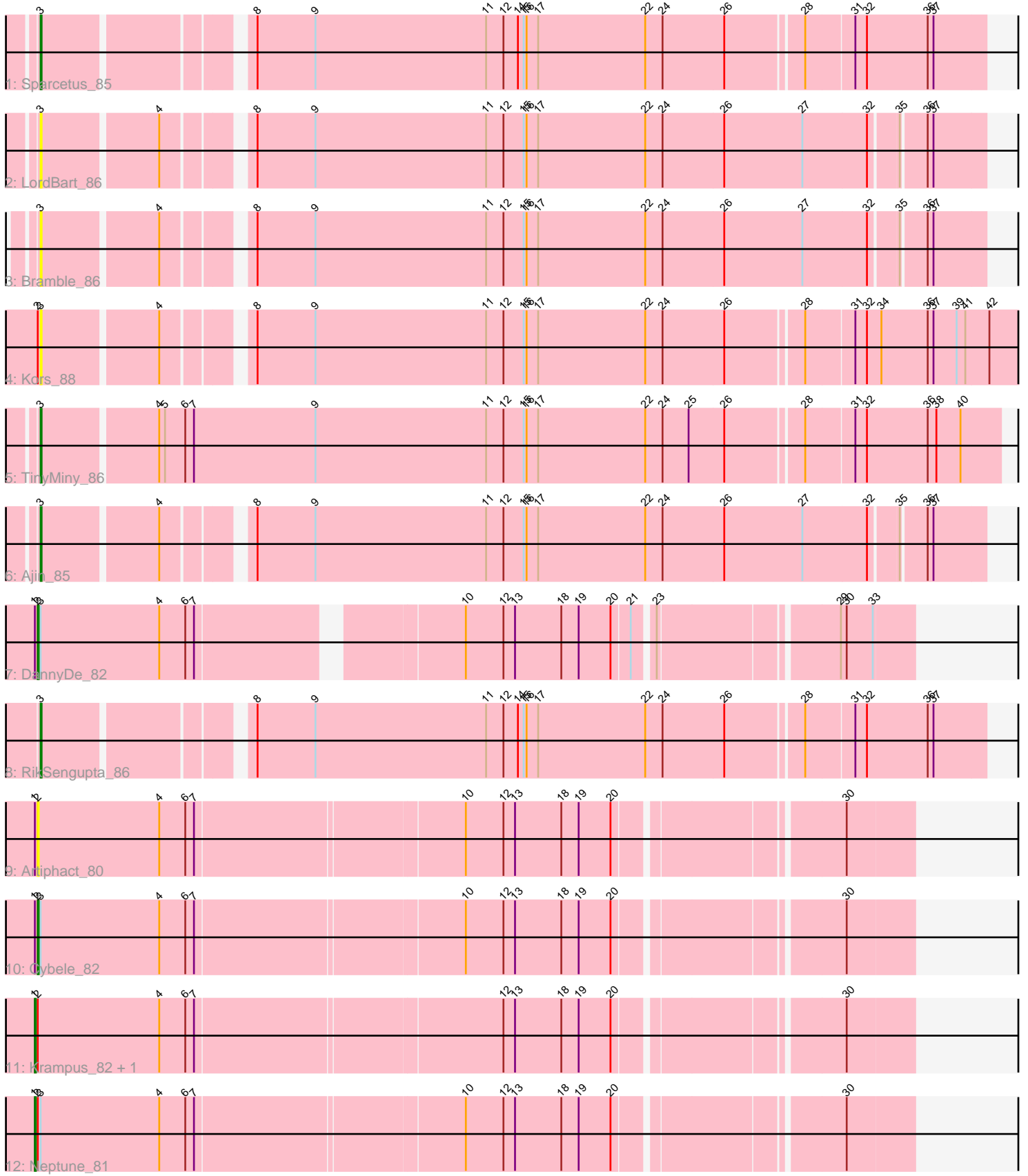


Pham 225010



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 225010 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225010 has 13 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Sparcetus_85
- Track 2 : LordBart_86
- Track 3 : Bramble_86
- Track 4 : Kors_88
- Track 5 : TinyMiny_86
- Track 6 : Ajin_85
- Track 7 : DannyDe_82
- Track 8 : RikSengupta_86
- Track 9 : Artiphact_80
- Track 10 : Cybele_82
- Track 11 : Krampus_82, AnnaSerena_82
- Track 12 : Neptune_81

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

Genes that call this "Most Annotated" start:

- Ajin_85, Bramble_86, Kors_88, LordBart_86, RikSengupta_86, Sparcetus_85, TinyMiny_86,

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

- Cybele_82, DannyDe_82, Neptune_81,

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

- AnnaSerena_82, Artiphact_80, Krampus_82,

Summary by start number:

Start 1:

- Found in 6 of 13 (46.2%) of genes in pham
- Manual Annotations of this start: 3 of 9
- Called 50.0% of time when present

- Phage (with cluster) where this start called: AnnaSerena_82 (EF), Krampus_82 (EF), Neptune_81 (EF),

Start 2:

- Found in 7 of 13 (53.8%) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Artiphact_80 (EF), Cybele_82 (EF), DannyDe_82 (EF),

Start 3:

- Found in 10 of 13 (76.9%) of genes in pham
- Manual Annotations of this start: 4 of 9
- Called 70.0% of time when present
- Phage (with cluster) where this start called: Ajin_85 (EF), Bramble_86 (EF), Kors_88 (EF), LordBart_86 (EF), RikSengupta_86 (EF), Sparcetus_85 (EF), TinyMiny_86 (EF),

Summary by clusters:

There is one cluster represented in this pham: EF

Info for manual annotations of cluster EF:

- Start number 1 was manually annotated 3 times for cluster EF.
- Start number 2 was manually annotated 2 times for cluster EF.
- Start number 3 was manually annotated 4 times for cluster EF.

Gene Information:

Gene: Ajin_85 Start: 54988, Stop: 55917, Start Num: 3

Candidate Starts for Ajin_85:

(Start: 3 @54988 has 4 MA's), (4, 55102), (8, 55177), (9, 55237), (11, 55414), (12, 55432), (15, 55453), (16, 55456), (17, 55468), (22, 55579), (24, 55597), (26, 55660), (27, 55741), (32, 55807), (35, 55834), (36, 55858), (37, 55864),

Gene: AnnaSerena_82 Start: 54835, Stop: 55698, Start Num: 1

Candidate Starts for AnnaSerena_82:

(Start: 1 @54835 has 3 MA's), (Start: 2 @54838 has 2 MA's), (4, 54964), (6, 54991), (7, 55000), (12, 55306), (13, 55318), (18, 55366), (19, 55384), (20, 55417), (30, 55630),

Gene: Artiphact_80 Start: 54828, Stop: 55688, Start Num: 2

Candidate Starts for Artiphact_80:

(Start: 1 @54825 has 3 MA's), (Start: 2 @54828 has 2 MA's), (4, 54954), (6, 54981), (7, 54990), (10, 55257), (12, 55296), (13, 55308), (18, 55356), (19, 55374), (20, 55407), (30, 55620),

Gene: Bramble_86 Start: 54955, Stop: 55884, Start Num: 3

Candidate Starts for Bramble_86:

(Start: 3 @54955 has 4 MA's), (4, 55069), (8, 55144), (9, 55204), (11, 55381), (12, 55399), (15, 55420), (16, 55423), (17, 55435), (22, 55546), (24, 55564), (26, 55627), (27, 55708), (32, 55774), (35, 55801), (36, 55825), (37, 55831),

Gene: Cybele_82 Start: 54825, Stop: 55685, Start Num: 2

Candidate Starts for Cybele_82:

(Start: 1 @54822 has 3 MA's), (Start: 2 @54825 has 2 MA's), (Start: 3 @54828 has 4 MA's), (4, 54951), (6, 54978), (7, 54987), (10, 55254), (12, 55293), (13, 55305), (18, 55353), (19, 55371), (20, 55404), (30, 55617),

Gene: DannyDe_82 Start: 54249, Stop: 55088, Start Num: 2

Candidate Starts for DannyDe_82:

(Start: 1 @54246 has 3 MA's), (Start: 2 @54249 has 2 MA's), (Start: 3 @54252 has 4 MA's), (4, 54375), (6, 54402), (7, 54411), (10, 54657), (12, 54696), (13, 54708), (18, 54756), (19, 54774), (20, 54807), (21, 54825), (23, 54843), (29, 55014), (30, 55020), (33, 55047),

Gene: Kors_88 Start: 55136, Stop: 56110, Start Num: 3

Candidate Starts for Kors_88:

(Start: 2 @55133 has 2 MA's), (Start: 3 @55136 has 4 MA's), (4, 55250), (8, 55325), (9, 55385), (11, 55562), (12, 55580), (15, 55601), (16, 55604), (17, 55616), (22, 55727), (24, 55745), (26, 55808), (28, 55883), (31, 55931), (32, 55943), (34, 55958), (36, 56006), (37, 56012), (39, 56036), (41, 56045), (42, 56069),

Gene: Krampus_82 Start: 54836, Stop: 55699, Start Num: 1

Candidate Starts for Krampus_82:

(Start: 1 @54836 has 3 MA's), (Start: 2 @54839 has 2 MA's), (4, 54965), (6, 54992), (7, 55001), (12, 55307), (13, 55319), (18, 55367), (19, 55385), (20, 55418), (30, 55631),

Gene: LordBart_86 Start: 54970, Stop: 55899, Start Num: 3

Candidate Starts for LordBart_86:

(Start: 3 @54970 has 4 MA's), (4, 55084), (8, 55159), (9, 55219), (11, 55396), (12, 55414), (15, 55435), (16, 55438), (17, 55450), (22, 55561), (24, 55579), (26, 55642), (27, 55723), (32, 55789), (35, 55816), (36, 55840), (37, 55846),

Gene: Neptune_81 Start: 54822, Stop: 55685, Start Num: 1

Candidate Starts for Neptune_81:

(Start: 1 @54822 has 3 MA's), (Start: 2 @54825 has 2 MA's), (Start: 3 @54828 has 4 MA's), (4, 54951), (6, 54978), (7, 54987), (10, 55254), (12, 55293), (13, 55305), (18, 55353), (19, 55371), (20, 55404), (30, 55617),

Gene: RikSengupta_86 Start: 55182, Stop: 56111, Start Num: 3

Candidate Starts for RikSengupta_86:

(Start: 3 @55182 has 4 MA's), (8, 55371), (9, 55431), (11, 55608), (12, 55626), (14, 55641), (15, 55647), (16, 55650), (17, 55662), (22, 55773), (24, 55791), (26, 55854), (28, 55929), (31, 55977), (32, 55989), (36, 56052), (37, 56058),

Gene: Sparcetus_85 Start: 54866, Stop: 55795, Start Num: 3

Candidate Starts for Sparcetus_85:

(Start: 3 @54866 has 4 MA's), (8, 55055), (9, 55115), (11, 55292), (12, 55310), (14, 55325), (15, 55331), (16, 55334), (17, 55346), (22, 55457), (24, 55475), (26, 55538), (28, 55613), (31, 55661), (32, 55673), (36, 55736), (37, 55742),

Gene: TinyMiny_86 Start: 54995, Stop: 55966, Start Num: 3

Candidate Starts for TinyMiny_86:

(Start: 3 @54995 has 4 MA's), (4, 55109), (5, 55115), (6, 55136), (7, 55145), (9, 55271), (11, 55448), (12, 55466), (15, 55487), (16, 55490), (17, 55502), (22, 55613), (24, 55631), (25, 55658), (26, 55694), (28, 55769), (31, 55817), (32, 55829), (36, 55892), (38, 55901), (40, 55925),