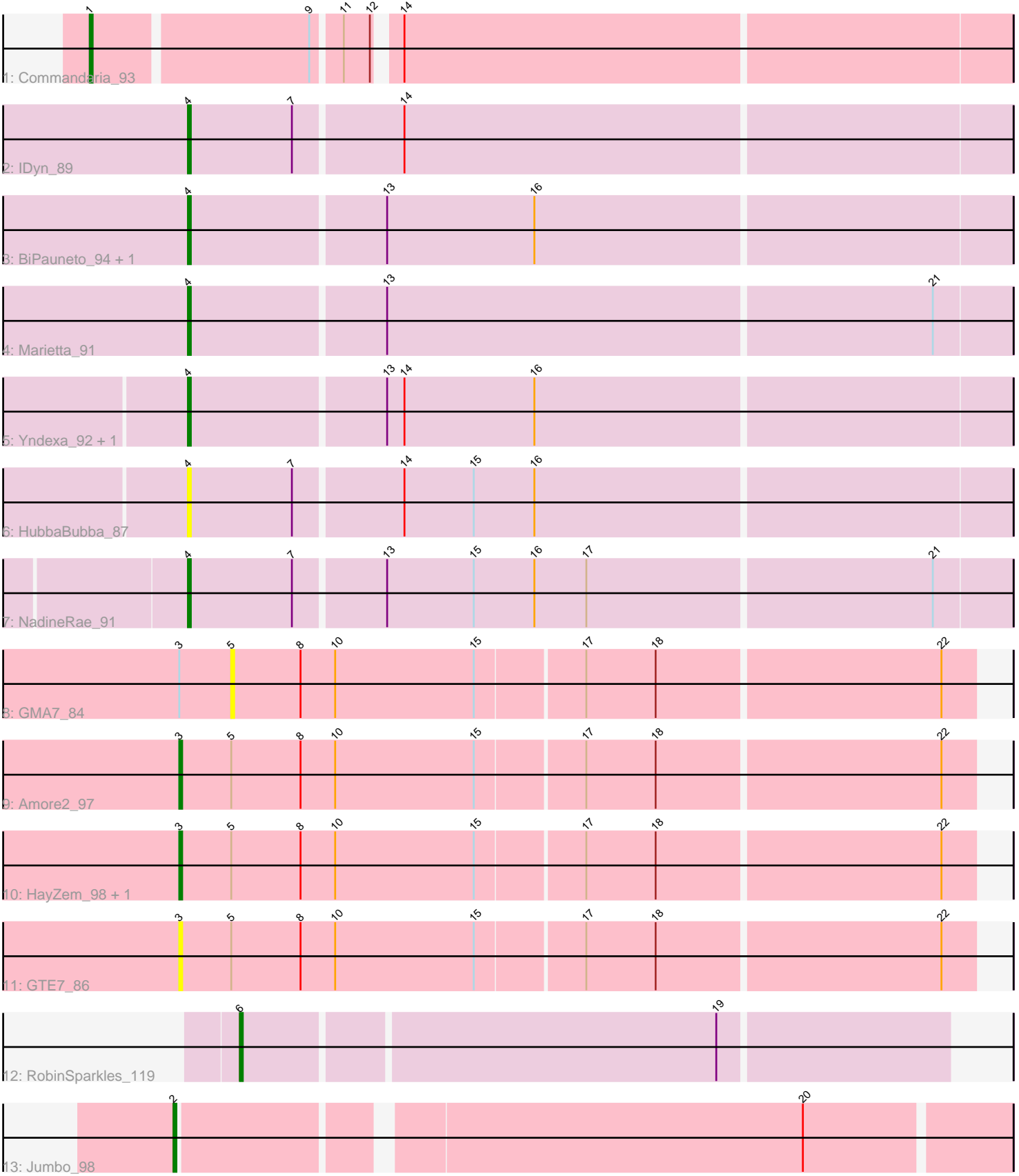


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 163992 Report

This analysis was run 05/04/24 on database version 560.

Pham number 163992 has 16 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Commandaria\_93
- Track 2 : IDyn\_89
- Track 3 : BiPauneto\_94, WhoseManz\_91
- Track 4 : Marietta\_91
- Track 5 : Yndexa\_92, Sukkupi\_92
- Track 6 : HubbaBubba\_87
- Track 7 : NadineRae\_91
- Track 8 : GMA7\_84
- Track 9 : Amore2\_97
- Track 10 : HayZem\_98, Austin\_95
- Track 11 : GTE7\_86
- Track 12 : RobinSparkles\_119
- Track 13 : Jumbo\_98

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

The start number called the most often in the published annotations is 4, it was called in 7 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BiPauneto\_94, HubbaBubba\_87, IDyn\_89, Marietta\_91, NadineRae\_91, Sukkupi\_92, WhoseManz\_91, Yndexa\_92,

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

- 

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

- Amore2\_97, Austin\_95, Commandaria\_93, GMA7\_84, GTE7\_86, HayZem\_98, Jumbo\_98, RobinSparkles\_119,

### **Summary by start number:**

Start 1:

- Found in 1 of 16 ( 6.2% ) of genes in pham

- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Commandaria\_93 (CR2),

Start 2:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jumbo\_98 (DF3),

Start 3:

- Found in 5 of 16 ( 31.2% ) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Amore2\_97 (CS1), Austin\_95 (CS1), GTE7\_86 (CS1), HayZem\_98 (CS1),

Start 4:

- Found in 8 of 16 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 7 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BiPauneto\_94 (CR4), HubbaBubba\_87 (CR4), IDyn\_89 (CR4), Marietta\_91 (CR4), NadineRae\_91 (CR4), Sukkupi\_92 (CR4), WhoseManz\_91 (CR4), Yndexa\_92 (CR4),

Start 5:

- Found in 5 of 16 ( 31.2% ) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: GMA7\_84 (CS1),

Start 6:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RobinSparkles\_119 (CX),

### **Summary by clusters:**

There are 5 clusters represented in this pham: CR2, CX, CS1, DF3, CR4,

Info for manual annotations of cluster CR2:

- Start number 1 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR4:

- Start number 4 was manually annotated 7 times for cluster CR4.

Info for manual annotations of cluster CS1:

- Start number 3 was manually annotated 2 times for cluster CS1.

Info for manual annotations of cluster CX:

- Start number 6 was manually annotated 1 time for cluster CX.

Info for manual annotations of cluster DF3:

- Start number 2 was manually annotated 1 time for cluster DF3.

**Gene Information:**

Gene: Amore2\_97 Start: 71099, Stop: 70830, Start Num: 3

Candidate Starts for Amore2\_97:

(Start: 3 @71099 has 2 MA's), (5, 71081), (8, 71057), (10, 71045), (15, 70997), (17, 70961), (18, 70937), (22, 70841),

Gene: Austin\_95 Start: 70932, Stop: 70663, Start Num: 3

Candidate Starts for Austin\_95:

(Start: 3 @70932 has 2 MA's), (5, 70914), (8, 70890), (10, 70878), (15, 70830), (17, 70794), (18, 70770), (22, 70674),

Gene: BiPauneto\_94 Start: 65422, Stop: 65700, Start Num: 4

Candidate Starts for BiPauneto\_94:

(Start: 4 @65422 has 7 MA's), (13, 65488), (16, 65539),

Gene: Commandaria\_93 Start: 66901, Stop: 67203, Start Num: 1

Candidate Starts for Commandaria\_93:

(Start: 1 @66901 has 1 MA's), (9, 66973), (11, 66982), (12, 66991), (14, 66997),

Gene: GMA7\_84 Start: 64843, Stop: 64592, Start Num: 5

Candidate Starts for GMA7\_84:

(Start: 3 @64861 has 2 MA's), (5, 64843), (8, 64819), (10, 64807), (15, 64759), (17, 64723), (18, 64699), (22, 64603),

Gene: GTE7\_86 Start: 65768, Stop: 65499, Start Num: 3

Candidate Starts for GTE7\_86:

(Start: 3 @65768 has 2 MA's), (5, 65750), (8, 65726), (10, 65714), (15, 65666), (17, 65630), (18, 65606), (22, 65510),

Gene: HayZem\_98 Start: 70939, Stop: 70670, Start Num: 3

Candidate Starts for HayZem\_98:

(Start: 3 @70939 has 2 MA's), (5, 70921), (8, 70897), (10, 70885), (15, 70837), (17, 70801), (18, 70777), (22, 70681),

Gene: HubbaBubba\_87 Start: 62424, Stop: 62702, Start Num: 4

Candidate Starts for HubbaBubba\_87:

(Start: 4 @62424 has 7 MA's), (7, 62460), (14, 62496), (15, 62520), (16, 62541),

Gene: IDyn\_89 Start: 63577, Stop: 63855, Start Num: 4

Candidate Starts for IDyn\_89:

(Start: 4 @63577 has 7 MA's), (7, 63613), (14, 63649),

Gene: Jumbo\_98 Start: 76302, Stop: 76030, Start Num: 2

Candidate Starts for Jumbo\_98:

(Start: 2 @76302 has 1 MA's), (20, 76098),

Gene: Marietta\_91 Start: 63120, Stop: 63398, Start Num: 4

Candidate Starts for Marietta\_91:

(Start: 4 @63120 has 7 MA's), (13, 63186), (21, 63372),

Gene: NadineRae\_91 Start: 63050, Stop: 63328, Start Num: 4

Candidate Starts for NadineRae\_91:

(Start: 4 @63050 has 7 MA's), (7, 63086), (13, 63116), (15, 63146), (16, 63167), (17, 63185), (21, 63302),

Gene: RobinSparkles\_119 Start: 77236, Stop: 77000, Start Num: 6

Candidate Starts for RobinSparkles\_119:

(Start: 6 @77236 has 1 MA's), (19, 77077),

Gene: Sukkupi\_92 Start: 64820, Stop: 65098, Start Num: 4

Candidate Starts for Sukkupi\_92:

(Start: 4 @64820 has 7 MA's), (13, 64886), (14, 64892), (16, 64937),

Gene: WhoseManz\_91 Start: 62783, Stop: 63061, Start Num: 4

Candidate Starts for WhoseManz\_91:

(Start: 4 @62783 has 7 MA's), (13, 62849), (16, 62900),

Gene: Yndexa\_92 Start: 64820, Stop: 65098, Start Num: 4

Candidate Starts for Yndexa\_92:

(Start: 4 @64820 has 7 MA's), (13, 64886), (14, 64892), (16, 64937),