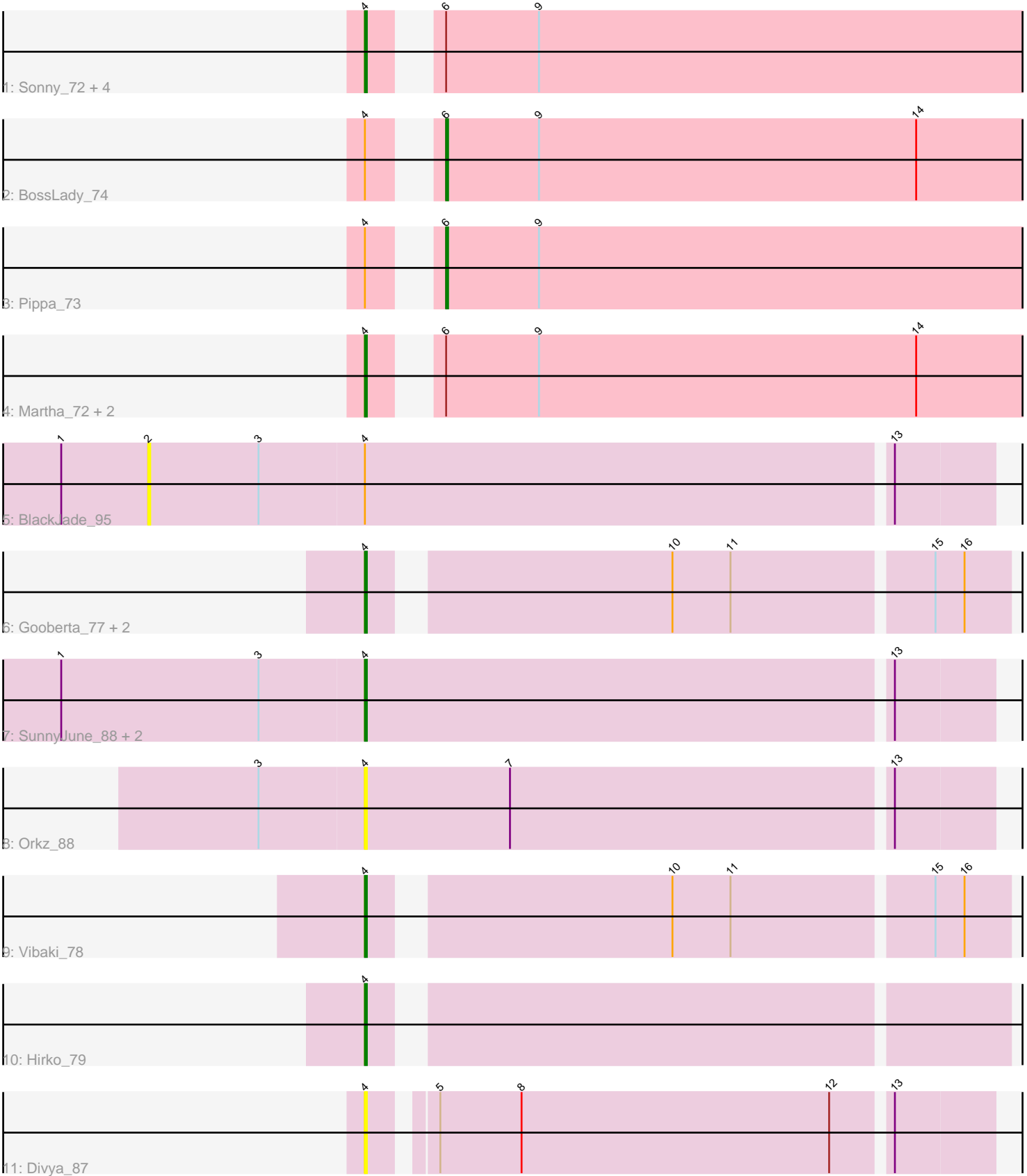


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 280889 Report

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

Pham number 280889 has 21 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Sonny\_72, JKerns\_72, Zartrosa\_74, Shade\_72, Jordan\_73
- Track 2 : BossLady\_74
- Track 3 : Pippa\_73
- Track 4 : Martha\_72, TaeYoung\_73, Grekaycon\_73
- Track 5 : BlackJade\_95
- Track 6 : Gooberta\_77, Music\_81, GoldDust\_76
- Track 7 : SunnyJune\_88, AirForce1\_86, Jinkies\_84
- Track 8 : Orkz\_88
- Track 9 : Vibaki\_78
- Track 10 : Hirko\_79
- Track 11 : Divya\_87

### ***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 12 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AirForce1\_86, Divya\_87, GoldDust\_76, Gooberta\_77, Grekaycon\_73, Hirko\_79, JKerns\_72, Jinkies\_84, Jordan\_73, Martha\_72, Music\_81, Orkz\_88, Shade\_72, Sonny\_72, SunnyJune\_88, TaeYoung\_73, Vibaki\_78, Zartrosa\_74,

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

- BlackJade\_95, BossLady\_74, Pippa\_73,

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

- 

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

Start 2:

- Found in 1 of 21 ( 4.8% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present

- Phage (with cluster) where this start called: BlackJade\_95 (FL),

Start 4:

- Found in 21 of 21 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 14
- Called 85.7% of time when present
- Phage (with cluster) where this start called: AirForce1\_86 (FL), Divya\_87 (FL), GoldDust\_76 (FL), Gooberta\_77 (FL), Grekaycon\_73 (AO2), Hirko\_79 (FL), JKerns\_72 (AO2), Jinkies\_84 (FL), Jordan\_73 (AO2), Martha\_72 (AO2), Music\_81 (FL), Orkz\_88 (FL), Shade\_72 (AO2), Sonny\_72 (AO2), SunnyJune\_88 (FL), TaeYoung\_73 (AO2), Vibaki\_78 (FL), Zartrosa\_74 (AO2),

Start 6:

- Found in 10 of 21 ( 47.6% ) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 20.0% of time when present
- Phage (with cluster) where this start called: BossLady\_74 (AO2), Pippa\_73 (AO2),

### **Summary by clusters:**

There are 2 clusters represented in this pham: FL, AO2,

Info for manual annotations of cluster AO2:

- Start number 4 was manually annotated 8 times for cluster AO2.
- Start number 6 was manually annotated 2 times for cluster AO2.

Info for manual annotations of cluster FL:

- Start number 4 was manually annotated 4 times for cluster FL.

### **Gene Information:**

Gene: AirForce1\_86 Start: 47421, Stop: 47104, Start Num: 4

Candidate Starts for AirForce1\_86:

(1, 47577), (3, 47475), (Start: 4 @47421 has 12 MA's), (13, 47154),

Gene: BlackJade\_95 Start: 49180, Stop: 48752, Start Num: 2

Candidate Starts for BlackJade\_95:

(1, 49225), (2, 49180), (3, 49123), (Start: 4 @49069 has 12 MA's), (13, 48802),

Gene: BossLady\_74 Start: 47057, Stop: 46746, Start Num: 6

Candidate Starts for BossLady\_74:

(Start: 4 @47078 has 12 MA's), (Start: 6 @47057 has 2 MA's), (9, 47009), (14, 46814),

Gene: Divya\_87 Start: 47623, Stop: 47318, Start Num: 4

Candidate Starts for Divya\_87:

(Start: 4 @47623 has 12 MA's), (5, 47596), (8, 47554), (12, 47395), (13, 47368),

Gene: GoldDust\_76 Start: 48481, Stop: 48173, Start Num: 4

Candidate Starts for GoldDust\_76:

(Start: 4 @48481 has 12 MA's), (10, 48340), (11, 48310), (15, 48211), (16, 48196),

Gene: Gooberta\_77 Start: 49208, Stop: 48900, Start Num: 4  
Candidate Starts for Gooberta\_77:  
(Start: 4 @49208 has 12 MA's), (10, 49067), (11, 49037), (15, 48938), (16, 48923),

Gene: Grekaycon\_73 Start: 46991, Stop: 46659, Start Num: 4  
Candidate Starts for Grekaycon\_73:  
(Start: 4 @46991 has 12 MA's), (Start: 6 @46970 has 2 MA's), (9, 46922), (14, 46727),

Gene: Hirko\_79 Start: 48513, Stop: 48205, Start Num: 4  
Candidate Starts for Hirko\_79:  
(Start: 4 @48513 has 12 MA's),

Gene: JKerns\_72 Start: 46983, Stop: 46651, Start Num: 4  
Candidate Starts for JKerns\_72:  
(Start: 4 @46983 has 12 MA's), (Start: 6 @46962 has 2 MA's), (9, 46914),

Gene: Jinkies\_84 Start: 48737, Stop: 48420, Start Num: 4  
Candidate Starts for Jinkies\_84:  
(1, 48893), (3, 48791), (Start: 4 @48737 has 12 MA's), (13, 48470),

Gene: Jordan\_73 Start: 47141, Stop: 46809, Start Num: 4  
Candidate Starts for Jordan\_73:  
(Start: 4 @47141 has 12 MA's), (Start: 6 @47120 has 2 MA's), (9, 47072),

Gene: Martha\_72 Start: 46927, Stop: 46595, Start Num: 4  
Candidate Starts for Martha\_72:  
(Start: 4 @46927 has 12 MA's), (Start: 6 @46906 has 2 MA's), (9, 46858), (14, 46663),

Gene: Music\_81 Start: 49006, Stop: 48698, Start Num: 4  
Candidate Starts for Music\_81:  
(Start: 4 @49006 has 12 MA's), (10, 48865), (11, 48835), (15, 48736), (16, 48721),

Gene: Orkz\_88 Start: 46496, Stop: 46179, Start Num: 4  
Candidate Starts for Orkz\_88:  
(3, 46550), (Start: 4 @46496 has 12 MA's), (7, 46421), (13, 46229),

Gene: Pippa\_73 Start: 46951, Stop: 46640, Start Num: 6  
Candidate Starts for Pippa\_73:  
(Start: 4 @46972 has 12 MA's), (Start: 6 @46951 has 2 MA's), (9, 46903),

Gene: Shade\_72 Start: 46747, Stop: 46415, Start Num: 4  
Candidate Starts for Shade\_72:  
(Start: 4 @46747 has 12 MA's), (Start: 6 @46726 has 2 MA's), (9, 46678),

Gene: Sonny\_72 Start: 46702, Stop: 46370, Start Num: 4  
Candidate Starts for Sonny\_72:  
(Start: 4 @46702 has 12 MA's), (Start: 6 @46681 has 2 MA's), (9, 46633),

Gene: SunnyJune\_88 Start: 47606, Stop: 47289, Start Num: 4  
Candidate Starts for SunnyJune\_88:  
(1, 47762), (3, 47660), (Start: 4 @47606 has 12 MA's), (13, 47339),

Gene: TaeYoung\_73 Start: 46899, Stop: 46567, Start Num: 4

Candidate Starts for TaeYoung\_73:

(Start: 4 @46899 has 12 MA's), (Start: 6 @46878 has 2 MA's), (9, 46830), (14, 46635),

Gene: Vibaki\_78 Start: 47924, Stop: 47616, Start Num: 4

Candidate Starts for Vibaki\_78:

(Start: 4 @47924 has 12 MA's), (10, 47783), (11, 47753), (15, 47654), (16, 47639),

Gene: Zartrosa\_74 Start: 46999, Stop: 46667, Start Num: 4

Candidate Starts for Zartrosa\_74:

(Start: 4 @46999 has 12 MA's), (Start: 6 @46978 has 2 MA's), (9, 46930),