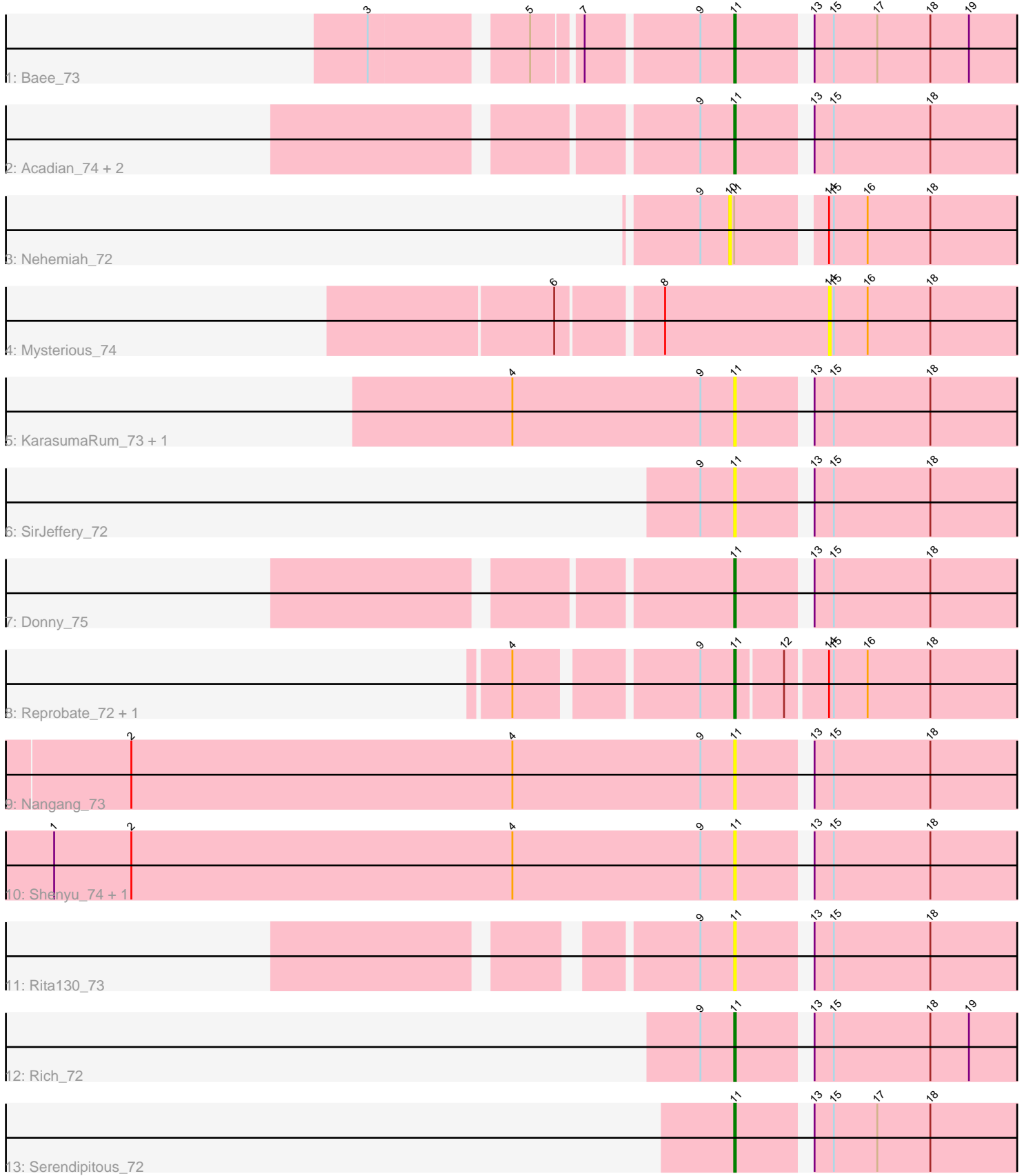


Pham 207258



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 207258 Report

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

Pham number 207258 has 18 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Bae\_73
- Track 2 : Acadian\_74, EastView9101\_73, Suigeneris\_75
- Track 3 : Nehemiah\_72
- Track 4 : Mysterious\_74
- Track 5 : KarasumaRum\_73, StinkyVeggy\_73
- Track 6 : SirJeffery\_72
- Track 7 : Donny\_75
- Track 8 : Reprobate\_72, Phelemich\_70
- Track 9 : Nangang\_73
- Track 10 : Shenyu\_74, DigitDog\_74
- Track 11 : Rita130\_73
- Track 12 : Rich\_72
- Track 13 : Serendipitous\_72

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

The start number called the most often in the published annotations is 11, it was called in 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acadian\_74, Bae\_73, DigitDog\_74, Donny\_75, EastView9101\_73, KarasumaRum\_73, Nangang\_73, Phelemich\_70, Reprobate\_72, Rich\_72, Rita130\_73, Serendipitous\_72, Shenyu\_74, SirJeffery\_72, StinkyVeggy\_73, Suigeneris\_75,

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

- Nehemiah\_72,

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

- Mysterious\_74,

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

Start 10:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nehemiah\_72 (B5),

Start 11:

- Found in 17 of 18 ( 94.4% ) of genes in pham
- Manual Annotations of this start: 9 of 9
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Acadian\_74 (B5), Bae\_73 (B5), DigitDog\_74 (B5), Donny\_75 (B5), EastView9101\_73 (B5), KarasumaRum\_73 (B5), Nangang\_73 (B5), Phelemich\_70 (B5), Reprobate\_72 (B5), Rich\_72 (B5), Rita130\_73 (B5), Serendipitous\_72 (B5), Shenyu\_74 (B5), SirJeffery\_72 (B5), StinkyVeggy\_73 (B5), Suigeneris\_75 (B5),

Start 14:

- Found in 4 of 18 ( 22.2% ) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Mysterious\_74 (B5),

### Summary by clusters:

There is one cluster represented in this pham: B5

Info for manual annotations of cluster B5:

- Start number 11 was manually annotated 9 times for cluster B5.

### **Gene Information:**

Gene: Acadian\_74 Start: 60737, Stop: 60919, Start Num: 11

Candidate Starts for Acadian\_74:

(9, 60716), (Start: 11 @60737 has 9 MA's), (13, 60776), (15, 60788), (18, 60848),

Gene: Bae\_73 Start: 61436, Stop: 61618, Start Num: 11

Candidate Starts for Bae\_73:

(3, 61238), (5, 61322), (7, 61349), (9, 61415), (Start: 11 @61436 has 9 MA's), (13, 61475), (15, 61487), (17, 61514), (18, 61547), (19, 61571),

Gene: DigitDog\_74 Start: 60838, Stop: 61020, Start Num: 11

Candidate Starts for DigitDog\_74:

(1, 60415), (2, 60463), (4, 60700), (9, 60817), (Start: 11 @60838 has 9 MA's), (13, 60877), (15, 60889), (18, 60949),

Gene: Donny\_75 Start: 60777, Stop: 60959, Start Num: 11

Candidate Starts for Donny\_75:

(Start: 11 @60777 has 9 MA's), (13, 60816), (15, 60828), (18, 60888),

Gene: EastView9101\_73 Start: 60481, Stop: 60663, Start Num: 11

Candidate Starts for EastView9101\_73:

(9, 60460), (Start: 11 @60481 has 9 MA's), (13, 60520), (15, 60532), (18, 60592),

Gene: KarasumaRum\_73 Start: 60713, Stop: 60895, Start Num: 11

Candidate Starts for KarasumaRum\_73:

(4, 60575), (9, 60692), (Start: 11 @60713 has 9 MA's), (13, 60752), (15, 60764), (18, 60824),

Gene: Mysterious\_74 Start: 60784, Stop: 60918, Start Num: 14

Candidate Starts for Mysterious\_74:

(6, 60622), (8, 60682), (14, 60784), (15, 60787), (16, 60808), (18, 60847),

Gene: Nangang\_73 Start: 60864, Stop: 61046, Start Num: 11

Candidate Starts for Nangang\_73:

(2, 60489), (4, 60726), (9, 60843), (Start: 11 @60864 has 9 MA's), (13, 60903), (15, 60915), (18, 60975),

Gene: Nehemiah\_72 Start: 60536, Stop: 60721, Start Num: 10

Candidate Starts for Nehemiah\_72:

(9, 60518), (10, 60536), (Start: 11 @60539 has 9 MA's), (14, 60587), (15, 60590), (16, 60611), (18, 60650),

Gene: Phelemich\_70 Start: 60602, Stop: 60787, Start Num: 11

Candidate Starts for Phelemich\_70:

(4, 60479), (9, 60581), (Start: 11 @60602 has 9 MA's), (12, 60629), (14, 60653), (15, 60656), (16, 60677), (18, 60716),

Gene: Reprobate\_72 Start: 60607, Stop: 60792, Start Num: 11

Candidate Starts for Reprobate\_72:

(4, 60484), (9, 60586), (Start: 11 @60607 has 9 MA's), (12, 60634), (14, 60658), (15, 60661), (16, 60682), (18, 60721),

Gene: Rich\_72 Start: 61481, Stop: 61663, Start Num: 11

Candidate Starts for Rich\_72:

(9, 61460), (Start: 11 @61481 has 9 MA's), (13, 61520), (15, 61532), (18, 61592), (19, 61616),

Gene: Rita130\_73 Start: 60711, Stop: 60893, Start Num: 11

Candidate Starts for Rita130\_73:

(9, 60690), (Start: 11 @60711 has 9 MA's), (13, 60750), (15, 60762), (18, 60822),

Gene: Serendipitous\_72 Start: 60167, Stop: 60349, Start Num: 11

Candidate Starts for Serendipitous\_72:

(Start: 11 @60167 has 9 MA's), (13, 60206), (15, 60218), (17, 60245), (18, 60278),

Gene: Shenyu\_74 Start: 61203, Stop: 61385, Start Num: 11

Candidate Starts for Shenyu\_74:

(1, 60780), (2, 60828), (4, 61065), (9, 61182), (Start: 11 @61203 has 9 MA's), (13, 61242), (15, 61254), (18, 61314),

Gene: SirJeffery\_72 Start: 60521, Stop: 60703, Start Num: 11

Candidate Starts for SirJeffery\_72:

(9, 60500), (Start: 11 @60521 has 9 MA's), (13, 60560), (15, 60572), (18, 60632),

Gene: StinkyVeggy\_73 Start: 60713, Stop: 60895, Start Num: 11

Candidate Starts for StinkyVeggy\_73:

(4, 60575), (9, 60692), (Start: 11 @60713 has 9 MA's), (13, 60752), (15, 60764), (18, 60824),

Gene: Suigeneris\_75 Start: 60959, Stop: 61141, Start Num: 11

Candidate Starts for Suigeneris\_75:

(9, 60938), (Start: 11 @60959 has 9 MA's), (13, 60998), (15, 61010), (18, 61070),