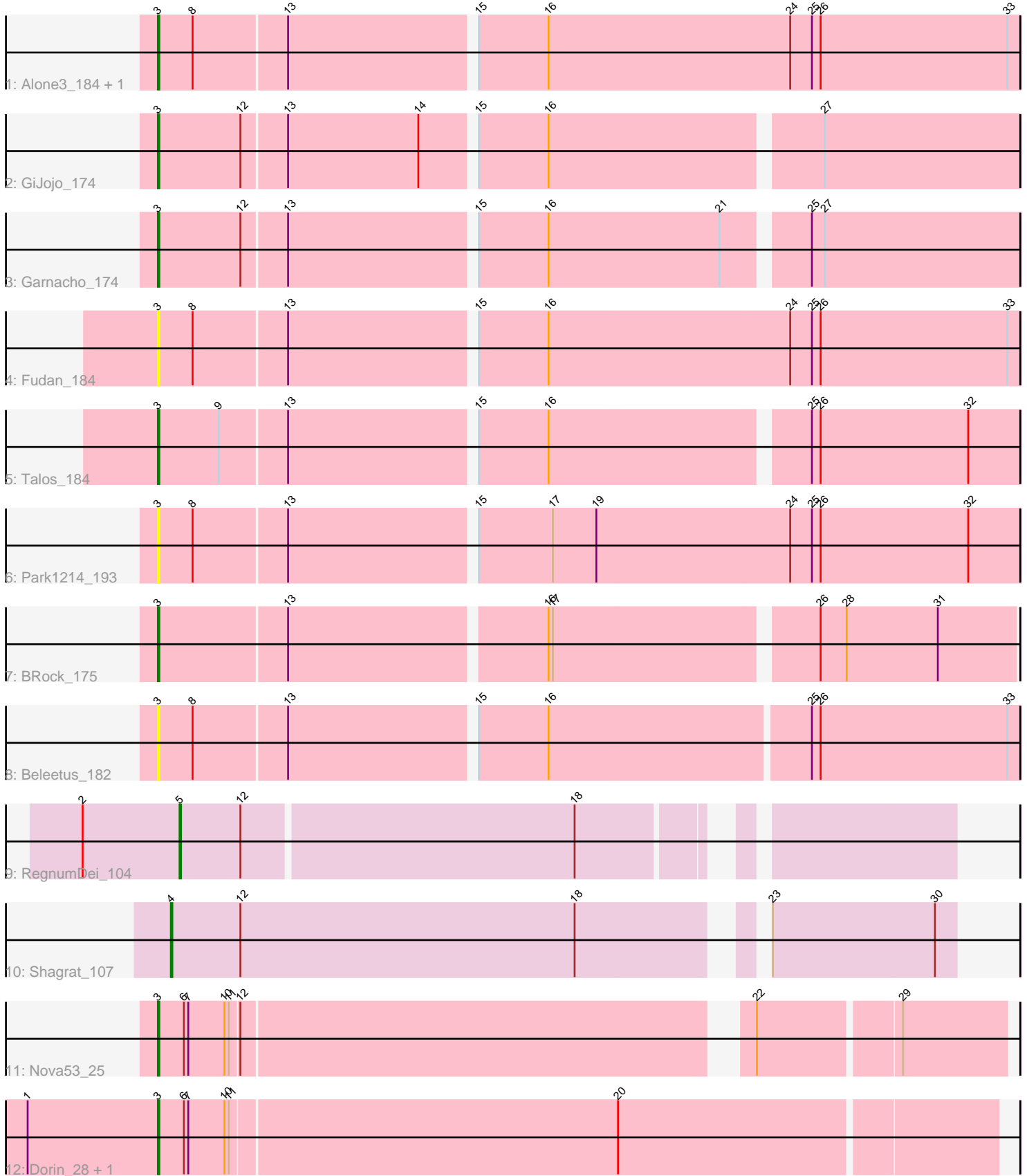


Pham 297091



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 297091 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297091 has 14 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Alone3\_184, LuckySocke\_182
- Track 2 : GiJojo\_174
- Track 3 : Garnacho\_174
- Track 4 : Fudan\_184
- Track 5 : Talos\_184
- Track 6 : Park1214\_193
- Track 7 : BRock\_175
- Track 8 : Beleetus\_182
- Track 9 : RegnumDei\_104
- Track 10 : Shagrat\_107
- Track 11 : Nova53\_25
- Track 12 : Dorin\_28, Francesca\_27

### ***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 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alone3\_184, BRock\_175, Beleetus\_182, Dorin\_28, Francesca\_27, Fudan\_184, Garnacho\_174, GiJojo\_174, LuckySocke\_182, Nova53\_25, Park1214\_193, Talos\_184,

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

- 

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

- RegnumDei\_104, Shagrat\_107,

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

Start 3:

- Found in 12 of 14 ( 85.7% ) of genes in pham
- Manual Annotations of this start: 9 of 11

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alone3\_184 (BS), BRock\_175 (BS), Beleetus\_182 (BS), Dorin\_28 (CG), Francesca\_27 (CG), Fudan\_184 (BS), Garnacho\_174 (BS), GiJojo\_174 (BS), LuckySocke\_182 (BS), Nova53\_25 (CG), Park1214\_193 (BS), Talos\_184 (BS),

Start 4:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shagrat\_107 (CF),

Start 5:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RegnumDei\_104 (CF),

### **Summary by clusters:**

There are 3 clusters represented in this pham: CG, CF, BS,

Info for manual annotations of cluster BS:

- Start number 3 was manually annotated 6 times for cluster BS.

Info for manual annotations of cluster CF:

- Start number 4 was manually annotated 1 time for cluster CF.
- Start number 5 was manually annotated 1 time for cluster CF.

Info for manual annotations of cluster CG:

- Start number 3 was manually annotated 3 times for cluster CG.

### **Gene Information:**

Gene: Alone3\_184 Start: 94300, Stop: 94881, Start Num: 3

Candidate Starts for Alone3\_184:

(Start: 3 @94300 has 9 MA's), (8, 94324), (13, 94387), (15, 94510), (16, 94558), (24, 94723), (25, 94738), (26, 94744), (33, 94873),

Gene: BRock\_175 Start: 89700, Stop: 90266, Start Num: 3

Candidate Starts for BRock\_175:

(Start: 3 @89700 has 9 MA's), (13, 89787), (16, 89958), (17, 89961), (26, 90132), (28, 90150), (31, 90213),

Gene: Beleetus\_182 Start: 92967, Stop: 93542, Start Num: 3

Candidate Starts for Beleetus\_182:

(Start: 3 @92967 has 9 MA's), (8, 92991), (13, 93054), (15, 93177), (16, 93225), (25, 93399), (26, 93405), (33, 93534),

Gene: Dorin\_28 Start: 12313, Stop: 11747, Start Num: 3

Candidate Starts for Dorin\_28:

(1, 12403), (Start: 3 @12313 has 9 MA's), (6, 12295), (7, 12292), (10, 12268), (11, 12265), (20, 12001),

Gene: Francesca\_27 Start: 12435, Stop: 11869, Start Num: 3

Candidate Starts for Francesca\_27:

(1, 12525), (Start: 3 @12435 has 9 MA's), (6, 12417), (7, 12414), (10, 12390), (11, 12387), (20, 12123),

Gene: Fudan\_184 Start: 92865, Stop: 93446, Start Num: 3

Candidate Starts for Fudan\_184:

(Start: 3 @92865 has 9 MA's), (8, 92889), (13, 92952), (15, 93075), (16, 93123), (24, 93288), (25, 93303), (26, 93309), (33, 93438),

Gene: Garnacho\_174 Start: 92644, Stop: 93213, Start Num: 3

Candidate Starts for Garnacho\_174:

(Start: 3 @92644 has 9 MA's), (12, 92701), (13, 92731), (15, 92854), (16, 92902), (21, 93019), (25, 93070), (27, 93079),

Gene: GiJojo\_174 Start: 94010, Stop: 94579, Start Num: 3

Candidate Starts for GiJojo\_174:

(Start: 3 @94010 has 9 MA's), (12, 94067), (13, 94097), (14, 94187), (15, 94220), (16, 94268), (27, 94445),

Gene: LuckySocke\_182 Start: 92805, Stop: 93386, Start Num: 3

Candidate Starts for LuckySocke\_182:

(Start: 3 @92805 has 9 MA's), (8, 92829), (13, 92892), (15, 93015), (16, 93063), (24, 93228), (25, 93243), (26, 93249), (33, 93378),

Gene: Nova53\_25 Start: 12099, Stop: 11551, Start Num: 3

Candidate Starts for Nova53\_25:

(Start: 3 @12099 has 9 MA's), (6, 12081), (7, 12078), (10, 12054), (11, 12051), (12, 12045), (22, 11715), (29, 11622),

Gene: Park1214\_193 Start: 94204, Stop: 94785, Start Num: 3

Candidate Starts for Park1214\_193:

(Start: 3 @94204 has 9 MA's), (8, 94228), (13, 94291), (15, 94414), (17, 94465), (19, 94495), (24, 94627), (25, 94642), (26, 94648), (32, 94750),

Gene: RegnumDei\_104 Start: 57026, Stop: 57514, Start Num: 5

Candidate Starts for RegnumDei\_104:

(2, 56960), (Start: 5 @57026 has 1 MA's), (12, 57068), (18, 57293),

Gene: Shagrat\_107 Start: 56053, Stop: 56559, Start Num: 4

Candidate Starts for Shagrat\_107:

(Start: 4 @56053 has 1 MA's), (12, 56101), (18, 56332), (23, 56434), (30, 56545),

Gene: Talos\_184 Start: 92834, Stop: 93403, Start Num: 3

Candidate Starts for Talos\_184:

(Start: 3 @92834 has 9 MA's), (9, 92876), (13, 92921), (15, 93044), (16, 93092), (25, 93260), (26, 93266), (32, 93368),