



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 188446 Report

This analysis was run 11/02/24 on database version 579.

Pham number 188446 has 21 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Kboogie\_70, Cali\_65, Ava3\_70, Dandelion\_75, ET08\_59, Pier\_71, Nappy\_70
- Track 2 : Babyland\_67, Pio\_73, Wally\_67, Drazdys\_68, Bxz1\_68, Audrick\_70, Spud\_68, Catera\_67, ArcherS7\_68, Bangla1971\_69, Pleione\_71, Breeniome\_70, Shrimp\_69
- Track 3 : Tonenili\_80

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

The start number called the most often in the published annotations is 7, it was called in 20 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ArcherS7\_68, Audrick\_70, Ava3\_70, Babyland\_67, Bangla1971\_69, Breeniome\_70, Bxz1\_68, Cali\_65, Catera\_67, Dandelion\_75, Drazdys\_68, ET08\_59, Kboogie\_70, Nappy\_70, Pier\_71, Pio\_73, Pleione\_71, Shrimp\_69, Spud\_68, Wally\_67,

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

- Tonenili\_80,

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

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

Start 6:

- Found in 21 of 21 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 4.8% of time when present
- Phage (with cluster) where this start called: Tonenili\_80 (C1),

Start 7:

- Found in 21 of 21 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 20 of 21

- Called 95.2% of time when present
- Phage (with cluster) where this start called: ArcherS7\_68 (C1), Audrick\_70 (C1), Ava3\_70 (C1), Babyland\_67 (C1), Bangla1971\_69 (C1), Breeniome\_70 (C1), Bxz1\_68 (C1), Cali\_65 (C1), Catera\_67 (C1), Dandelion\_75 (C1), Drazdys\_68 (C1), ET08\_59 (C1), Kboogie\_70 (C1), Nappy\_70 (C1), Pier\_71 (C1), Pio\_73 (C1), Pleione\_71 (C1), Shrimp\_69 (C1), Spud\_68 (C1), Wally\_67 (C1),

### **Summary by clusters:**

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:

- Start number 6 was manually annotated 1 time for cluster C1.
- Start number 7 was manually annotated 20 times for cluster C1.

### **Gene Information:**

Gene: ArcherS7\_68 Start: 21989, Stop: 22165, Start Num: 7

Candidate Starts for ArcherS7\_68:

(3, 21830), (Start: 6 @21959 has 1 MA's), (Start: 7 @21989 has 20 MA's), (9, 22109), (10, 22136), (11, 22142),

Gene: Audrick\_70 Start: 21605, Stop: 21781, Start Num: 7

Candidate Starts for Audrick\_70:

(3, 21446), (Start: 6 @21575 has 1 MA's), (Start: 7 @21605 has 20 MA's), (9, 21725), (10, 21752), (11, 21758),

Gene: Ava3\_70 Start: 22738, Stop: 22914, Start Num: 7

Candidate Starts for Ava3\_70:

(1, 22501), (2, 22513), (3, 22579), (Start: 6 @22708 has 1 MA's), (Start: 7 @22738 has 20 MA's), (9, 22858), (10, 22885), (11, 22891),

Gene: Babyland\_67 Start: 21064, Stop: 21240, Start Num: 7

Candidate Starts for Babyland\_67:

(3, 20905), (Start: 6 @21034 has 1 MA's), (Start: 7 @21064 has 20 MA's), (9, 21184), (10, 21211), (11, 21217),

Gene: Bangla1971\_69 Start: 22119, Stop: 22295, Start Num: 7

Candidate Starts for Bangla1971\_69:

(3, 21960), (Start: 6 @22089 has 1 MA's), (Start: 7 @22119 has 20 MA's), (9, 22239), (10, 22266), (11, 22272),

Gene: Breeniome\_70 Start: 21868, Stop: 22044, Start Num: 7

Candidate Starts for Breeniome\_70:

(3, 21709), (Start: 6 @21838 has 1 MA's), (Start: 7 @21868 has 20 MA's), (9, 21988), (10, 22015), (11, 22021),

Gene: Bxz1\_68 Start: 23445, Stop: 23621, Start Num: 7

Candidate Starts for Bxz1\_68:

(3, 23286), (Start: 6 @23415 has 1 MA's), (Start: 7 @23445 has 20 MA's), (9, 23565), (10, 23592), (11, 23598),

Gene: Cali\_65 Start: 23267, Stop: 23443, Start Num: 7

Candidate Starts for Cali\_65:

(1, 23030), (2, 23042), (3, 23108), (Start: 6 @23237 has 1 MA's), (Start: 7 @23267 has 20 MA's), (9, 23387), (10, 23414), (11, 23420),

Gene: Catera\_67 Start: 21560, Stop: 21736, Start Num: 7

Candidate Starts for Catera\_67:

(3, 21401), (Start: 6 @21530 has 1 MA's), (Start: 7 @21560 has 20 MA's), (9, 21680), (10, 21707), (11, 21713),

Gene: Dandelion\_75 Start: 24760, Stop: 24936, Start Num: 7

Candidate Starts for Dandelion\_75:

(1, 24523), (2, 24535), (3, 24601), (Start: 6 @24730 has 1 MA's), (Start: 7 @24760 has 20 MA's), (9, 24880), (10, 24907), (11, 24913),

Gene: Drazdys\_68 Start: 22463, Stop: 22639, Start Num: 7

Candidate Starts for Drazdys\_68:

(3, 22304), (Start: 6 @22433 has 1 MA's), (Start: 7 @22463 has 20 MA's), (9, 22583), (10, 22610), (11, 22616),

Gene: ET08\_59 Start: 21133, Stop: 21309, Start Num: 7

Candidate Starts for ET08\_59:

(1, 20896), (2, 20908), (3, 20974), (Start: 6 @21103 has 1 MA's), (Start: 7 @21133 has 20 MA's), (9, 21253), (10, 21280), (11, 21286),

Gene: Kboogie\_70 Start: 21667, Stop: 21843, Start Num: 7

Candidate Starts for Kboogie\_70:

(1, 21430), (2, 21442), (3, 21508), (Start: 6 @21637 has 1 MA's), (Start: 7 @21667 has 20 MA's), (9, 21787), (10, 21814), (11, 21820),

Gene: Nappy\_70 Start: 22982, Stop: 23158, Start Num: 7

Candidate Starts for Nappy\_70:

(1, 22745), (2, 22757), (3, 22823), (Start: 6 @22952 has 1 MA's), (Start: 7 @22982 has 20 MA's), (9, 23102), (10, 23129), (11, 23135),

Gene: Pier\_71 Start: 22438, Stop: 22614, Start Num: 7

Candidate Starts for Pier\_71:

(1, 22201), (2, 22213), (3, 22279), (Start: 6 @22408 has 1 MA's), (Start: 7 @22438 has 20 MA's), (9, 22558), (10, 22585), (11, 22591),

Gene: Pio\_73 Start: 23834, Stop: 24010, Start Num: 7

Candidate Starts for Pio\_73:

(3, 23675), (Start: 6 @23804 has 1 MA's), (Start: 7 @23834 has 20 MA's), (9, 23954), (10, 23981), (11, 23987),

Gene: Pleione\_71 Start: 22679, Stop: 22855, Start Num: 7

Candidate Starts for Pleione\_71:

(3, 22520), (Start: 6 @22649 has 1 MA's), (Start: 7 @22679 has 20 MA's), (9, 22799), (10, 22826), (11, 22832),

Gene: Shrimp\_69 Start: 22684, Stop: 22860, Start Num: 7

Candidate Starts for Shrimp\_69:

(3, 22525), (Start: 6 @22654 has 1 MA's), (Start: 7 @22684 has 20 MA's), (9, 22804), (10, 22831), (11, 22837),

Gene: Spud\_68 Start: 22995, Stop: 23171, Start Num: 7

Candidate Starts for Spud\_68:

(3, 22836), (Start: 6 @22965 has 1 MA's), (Start: 7 @22995 has 20 MA's), (9, 23115), (10, 23142), (11, 23148),

Gene: Tonenili\_80 Start: 25468, Stop: 25671, Start Num: 6

Candidate Starts for Tonenili\_80:

(4, 25345), (5, 25390), (Start: 6 @25468 has 1 MA's), (Start: 7 @25498 has 20 MA's), (8, 25528), (9, 25618), (10, 25645), (12, 25663),

Gene: Wally\_67 Start: 21235, Stop: 21411, Start Num: 7

Candidate Starts for Wally\_67:

(3, 21076), (Start: 6 @21205 has 1 MA's), (Start: 7 @21235 has 20 MA's), (9, 21355), (10, 21382), (11, 21388),