



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 3877 Report

This analysis was run 04/28/24 on database version 559.

Pham number 3877 has 25 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Vorrrps\_47, JangDynasty\_48, Blessica\_49, Mori\_47, SchoolBus\_48, Familton\_49, YungJamal\_51, Alkhayr\_46, MadKillah\_49, NiebruSaylor\_47, FoulBall\_45, TelAviv\_45, Ashwin\_47, Shida\_48, Idergollasper\_48, Ryadel\_52, Smooch\_50, Wildflower\_46, Murai\_48, Catdawg\_48, Winget\_49, Krili\_47, Schuy\_46
- Track 2 : Corndog\_50, Firecracker\_48

### ***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 18 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alkhayr\_46, Ashwin\_47, Blessica\_49, Catdawg\_48, Familton\_49, FoulBall\_45, Idergollasper\_48, JangDynasty\_48, Krili\_47, MadKillah\_49, Mori\_47, Murai\_48, NiebruSaylor\_47, Ryadel\_52, SchoolBus\_48, Schuy\_46, Shida\_48, Smooch\_50, TelAviv\_45, Vorrrps\_47, Wildflower\_46, Winget\_49, YungJamal\_51,

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

- Corndog\_50, Firecracker\_48,

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

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

Start 3:

- Found in 25 of 25 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 2 of 20
- Called 8.0% of time when present
- Phage (with cluster) where this start called: Corndog\_50 (O), Firecracker\_48 (O),

Start 4:

- Found in 25 of 25 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 18 of 20

- Called 92.0% of time when present
- Phage (with cluster) where this start called: Alkhayr\_46 (O), Ashwin\_47 (O), Blessica\_49 (O), Catdawg\_48 (O), Familton\_49 (O), FoulBall\_45 (O), Idergollasper\_48 (O), JangDynasty\_48 (O), Krili\_47 (O), MadKillah\_49 (O), Mori\_47 (O), Murai\_48 (O), NiebruSaylor\_47 (O), Ryadel\_52 (O), SchoolBus\_48 (O), Schuy\_46 (O), Shida\_48 (O), Smooch\_50 (O), TelAviv\_45 (O), Vorrps\_47 (O), Wildflower\_46 (O), Winget\_49 (O), YungJamal\_51 (O),

### **Summary by clusters:**

There is one cluster represented in this pham: O

Info for manual annotations of cluster O:

- Start number 3 was manually annotated 2 times for cluster O.
- Start number 4 was manually annotated 18 times for cluster O.

### **Gene Information:**

Gene: Alkhayr\_46 Start: 24775, Stop: 24680, Start Num: 4

Candidate Starts for Alkhayr\_46:

(1, 24895), (2, 24880), (Start: 3 @24790 has 2 MA's), (Start: 4 @24775 has 18 MA's), (5, 24751), (6, 24712),

Gene: Ashwin\_47 Start: 24773, Stop: 24678, Start Num: 4

Candidate Starts for Ashwin\_47:

(1, 24893), (2, 24878), (Start: 3 @24788 has 2 MA's), (Start: 4 @24773 has 18 MA's), (5, 24749), (6, 24710),

Gene: Blessica\_49 Start: 25176, Stop: 25081, Start Num: 4

Candidate Starts for Blessica\_49:

(1, 25296), (2, 25281), (Start: 3 @25191 has 2 MA's), (Start: 4 @25176 has 18 MA's), (5, 25152), (6, 25113),

Gene: Catdawg\_48 Start: 24865, Stop: 24770, Start Num: 4

Candidate Starts for Catdawg\_48:

(1, 24985), (2, 24970), (Start: 3 @24880 has 2 MA's), (Start: 4 @24865 has 18 MA's), (5, 24841), (6, 24802),

Gene: Corndog\_50 Start: 25338, Stop: 25228, Start Num: 3

Candidate Starts for Corndog\_50:

(1, 25443), (2, 25428), (Start: 3 @25338 has 2 MA's), (Start: 4 @25323 has 18 MA's), (5, 25299), (6, 25260),

Gene: Familton\_49 Start: 24869, Stop: 24774, Start Num: 4

Candidate Starts for Familton\_49:

(1, 24989), (2, 24974), (Start: 3 @24884 has 2 MA's), (Start: 4 @24869 has 18 MA's), (5, 24845), (6, 24806),

Gene: Firecracker\_48 Start: 24491, Stop: 24381, Start Num: 3

Candidate Starts for Firecracker\_48:

(1, 24596), (2, 24581), (Start: 3 @24491 has 2 MA's), (Start: 4 @24476 has 18 MA's), (5, 24452), (6, 24413),

Gene: FoulBall\_45 Start: 24863, Stop: 24768, Start Num: 4

Candidate Starts for FoulBall\_45:

(1, 24983), (2, 24968), (Start: 3 @24878 has 2 MA's), (Start: 4 @24863 has 18 MA's), (5, 24839), (6, 24800),

Gene: Idergollasper\_48 Start: 24863, Stop: 24768, Start Num: 4

Candidate Starts for Idergollasper\_48:

(1, 24983), (2, 24968), (Start: 3 @24878 has 2 MA's), (Start: 4 @24863 has 18 MA's), (5, 24839), (6, 24800),

Gene: JangDynasty\_48 Start: 24958, Stop: 24863, Start Num: 4

Candidate Starts for JangDynasty\_48:

(1, 25078), (2, 25063), (Start: 3 @24973 has 2 MA's), (Start: 4 @24958 has 18 MA's), (5, 24934), (6, 24895),

Gene: Krili\_47 Start: 24580, Stop: 24485, Start Num: 4

Candidate Starts for Krili\_47:

(1, 24700), (2, 24685), (Start: 3 @24595 has 2 MA's), (Start: 4 @24580 has 18 MA's), (5, 24556), (6, 24517),

Gene: MadKillah\_49 Start: 24802, Stop: 24707, Start Num: 4

Candidate Starts for MadKillah\_49:

(1, 24922), (2, 24907), (Start: 3 @24817 has 2 MA's), (Start: 4 @24802 has 18 MA's), (5, 24778), (6, 24739),

Gene: Mori\_47 Start: 24451, Stop: 24356, Start Num: 4

Candidate Starts for Mori\_47:

(1, 24571), (2, 24556), (Start: 3 @24466 has 2 MA's), (Start: 4 @24451 has 18 MA's), (5, 24427), (6, 24388),

Gene: Murai\_48 Start: 24641, Stop: 24546, Start Num: 4

Candidate Starts for Murai\_48:

(1, 24761), (2, 24746), (Start: 3 @24656 has 2 MA's), (Start: 4 @24641 has 18 MA's), (5, 24617), (6, 24578),

Gene: NiebruSaylor\_47 Start: 24452, Stop: 24357, Start Num: 4

Candidate Starts for NiebruSaylor\_47:

(1, 24572), (2, 24557), (Start: 3 @24467 has 2 MA's), (Start: 4 @24452 has 18 MA's), (5, 24428), (6, 24389),

Gene: Ryadel\_52 Start: 25916, Stop: 25821, Start Num: 4

Candidate Starts for Ryadel\_52:

(1, 26036), (2, 26021), (Start: 3 @25931 has 2 MA's), (Start: 4 @25916 has 18 MA's), (5, 25892), (6, 25853),

Gene: SchoolBus\_48 Start: 24866, Stop: 24771, Start Num: 4

Candidate Starts for SchoolBus\_48:

(1, 24986), (2, 24971), (Start: 3 @24881 has 2 MA's), (Start: 4 @24866 has 18 MA's), (5, 24842), (6, 24803),

Gene: Schuy\_46 Start: 24799, Stop: 24704, Start Num: 4

Candidate Starts for Schuy\_46:

(1, 24919), (2, 24904), (Start: 3 @24814 has 2 MA's), (Start: 4 @24799 has 18 MA's), (5, 24775), (6, 24736),

Gene: Shida\_48 Start: 24706, Stop: 24611, Start Num: 4

Candidate Starts for Shida\_48:

(1, 24826), (2, 24811), (Start: 3 @24721 has 2 MA's), (Start: 4 @24706 has 18 MA's), (5, 24682), (6, 24643),

Gene: Smooch\_50 Start: 25994, Stop: 25899, Start Num: 4

Candidate Starts for Smooch\_50:

(1, 26114), (2, 26099), (Start: 3 @26009 has 2 MA's), (Start: 4 @25994 has 18 MA's), (5, 25970), (6, 25931),

Gene: TelAviv\_45 Start: 24860, Stop: 24765, Start Num: 4

Candidate Starts for TelAviv\_45:

(1, 24980), (2, 24965), (Start: 3 @24875 has 2 MA's), (Start: 4 @24860 has 18 MA's), (5, 24836), (6, 24797),

Gene: Vorrrps\_47 Start: 24452, Stop: 24357, Start Num: 4

Candidate Starts for Vorrrps\_47:

(1, 24572), (2, 24557), (Start: 3 @24467 has 2 MA's), (Start: 4 @24452 has 18 MA's), (5, 24428), (6, 24389),

Gene: Wildflower\_46 Start: 24438, Stop: 24343, Start Num: 4

Candidate Starts for Wildflower\_46:

(1, 24558), (2, 24543), (Start: 3 @24453 has 2 MA's), (Start: 4 @24438 has 18 MA's), (5, 24414), (6, 24375),

Gene: Winget\_49 Start: 25132, Stop: 25037, Start Num: 4

Candidate Starts for Winget\_49:

(1, 25252), (2, 25237), (Start: 3 @25147 has 2 MA's), (Start: 4 @25132 has 18 MA's), (5, 25108), (6, 25069),

Gene: YungJamal\_51 Start: 25171, Stop: 25076, Start Num: 4

Candidate Starts for YungJamal\_51:

(1, 25291), (2, 25276), (Start: 3 @25186 has 2 MA's), (Start: 4 @25171 has 18 MA's), (5, 25147), (6, 25108),