



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 296897 Report

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

Pham number 296897 has 25 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Taquito\_55
- Track 2 : Ruthiejr\_56, Malthus\_56, Y10\_54, Lebo14\_54, Mitti\_55, Fionnbharth\_55, Slarp\_55, Y2\_54, JF1\_55, DanSyl44\_58, Wintermute\_55, Qhanda\_57, Juliette\_57, YasnayaPolyana\_55, Kraw\_55, Cheetobro\_55, OmniCritical\_54, SamScheppers\_53, Chancellor\_55, Eponine\_57
- Track 3 : Patt\_52, Bobquesha\_57, MissDaisy\_53, Reptar3000\_53

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

The start number called the most often in the published annotations is 2, it was called in 21 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bobquesha\_57, Chancellor\_55, Cheetobro\_55, DanSyl44\_58, Eponine\_57, Fionnbharth\_55, JF1\_55, Juliette\_57, Kraw\_55, Lebo14\_54, Malthus\_56, MissDaisy\_53, Mitti\_55, OmniCritical\_54, Patt\_52, Qhanda\_57, Reptar3000\_53, Ruthiejr\_56, SamScheppers\_53, Slarp\_55, Wintermute\_55, Y10\_54, Y2\_54, YasnayaPolyana\_55,

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

- Taquito\_55,

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

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

Start 1:

- Found in 21 of 25 ( 84.0% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 4.8% of time when present
- Phage (with cluster) where this start called: Taquito\_55 (K4),

Start 2:

- Found in 25 of 25 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 21 of 22
- Called 96.0% of time when present
- Phage (with cluster) where this start called: Bobquesha\_57 (K4), Chancellor\_55 (K4), Cheetobro\_55 (K4), DanSyl44\_58 (K4), Eponine\_57 (K4), Fionnbharth\_55 (K4), JF1\_55 (K4), Juliette\_57 (K4), Kraw\_55 (K4), Lebo14\_54 (K4), Malthus\_56 (K4), MissDaisy\_53 (K4), Mitti\_55 (K4), OmniCritical\_54 (K4), Patt\_52 (K4), Qhanda\_57 (K4), Reptar3000\_53 (K4), Ruthiejr\_56 (K4), SamScheppers\_53 (K4), Slarp\_55 (K4), Wintermute\_55 (K4), Y10\_54 (K4), Y2\_54 (K4), YasnayaPolyana\_55 (K4),

### Summary by clusters:

There is one cluster represented in this pham: K4

Info for manual annotations of cluster K4:

- Start number 1 was manually annotated 1 time for cluster K4.
- Start number 2 was manually annotated 21 times for cluster K4.

### Gene Information:

Gene: Bobquesha\_57 Start: 37478, Stop: 37717, Start Num: 2

Candidate Starts for Bobquesha\_57:

(Start: 2 @37478 has 21 MA's), (4, 37547),

Gene: Chancellor\_55 Start: 37968, Stop: 38207, Start Num: 2

Candidate Starts for Chancellor\_55:

(Start: 1 @37965 has 1 MA's), (Start: 2 @37968 has 21 MA's), (3, 37980), (4, 38037), (5, 38082), (6, 38127),

Gene: Cheetobro\_55 Start: 37965, Stop: 38204, Start Num: 2

Candidate Starts for Cheetobro\_55:

(Start: 1 @37962 has 1 MA's), (Start: 2 @37965 has 21 MA's), (3, 37977), (4, 38034), (5, 38079), (6, 38124),

Gene: DanSyl44\_58 Start: 39093, Stop: 39332, Start Num: 2

Candidate Starts for DanSyl44\_58:

(Start: 1 @39090 has 1 MA's), (Start: 2 @39093 has 21 MA's), (3, 39105), (4, 39162), (5, 39207), (6, 39252),

Gene: Eponine\_57 Start: 38805, Stop: 39044, Start Num: 2

Candidate Starts for Eponine\_57:

(Start: 1 @38802 has 1 MA's), (Start: 2 @38805 has 21 MA's), (3, 38817), (4, 38874), (5, 38919), (6, 38964),

Gene: Fionnbharth\_55 Start: 38203, Stop: 38442, Start Num: 2

Candidate Starts for Fionnbharth\_55:

(Start: 1 @38200 has 1 MA's), (Start: 2 @38203 has 21 MA's), (3, 38215), (4, 38272), (5, 38317), (6, 38362),

Gene: JF1\_55 Start: 38120, Stop: 38359, Start Num: 2

Candidate Starts for JF1\_55:

(Start: 1 @38117 has 1 MA's), (Start: 2 @38120 has 21 MA's), (3, 38132), (4, 38189), (5, 38234), (6, 38279),

Gene: Juliette\_57 Start: 38273, Stop: 38512, Start Num: 2

Candidate Starts for Juliette\_57:

(Start: 1 @38270 has 1 MA's), (Start: 2 @38273 has 21 MA's), (3, 38285), (4, 38342), (5, 38387), (6, 38432),

Gene: Kraw\_55 Start: 37961, Stop: 38200, Start Num: 2

Candidate Starts for Kraw\_55:

(Start: 1 @37958 has 1 MA's), (Start: 2 @37961 has 21 MA's), (3, 37973), (4, 38030), (5, 38075), (6, 38120),

Gene: Lebo14\_54 Start: 38228, Stop: 38467, Start Num: 2

Candidate Starts for Lebo14\_54:

(Start: 1 @38225 has 1 MA's), (Start: 2 @38228 has 21 MA's), (3, 38240), (4, 38297), (5, 38342), (6, 38387),

Gene: Malthus\_56 Start: 37961, Stop: 38200, Start Num: 2

Candidate Starts for Malthus\_56:

(Start: 1 @37958 has 1 MA's), (Start: 2 @37961 has 21 MA's), (3, 37973), (4, 38030), (5, 38075), (6, 38120),

Gene: MissDaisy\_53 Start: 37493, Stop: 37732, Start Num: 2

Candidate Starts for MissDaisy\_53:

(Start: 2 @37493 has 21 MA's), (4, 37562),

Gene: Mitti\_55 Start: 38140, Stop: 38379, Start Num: 2

Candidate Starts for Mitti\_55:

(Start: 1 @38137 has 1 MA's), (Start: 2 @38140 has 21 MA's), (3, 38152), (4, 38209), (5, 38254), (6, 38299),

Gene: OmniCritical\_54 Start: 37949, Stop: 38188, Start Num: 2

Candidate Starts for OmniCritical\_54:

(Start: 1 @37946 has 1 MA's), (Start: 2 @37949 has 21 MA's), (3, 37961), (4, 38018), (5, 38063), (6, 38108),

Gene: Patt\_52 Start: 37217, Stop: 37456, Start Num: 2

Candidate Starts for Patt\_52:

(Start: 2 @37217 has 21 MA's), (4, 37286),

Gene: Qhanda\_57 Start: 37977, Stop: 38216, Start Num: 2

Candidate Starts for Qhanda\_57:

(Start: 1 @37974 has 1 MA's), (Start: 2 @37977 has 21 MA's), (3, 37989), (4, 38046), (5, 38091), (6, 38136),

Gene: Reptar3000\_53 Start: 37205, Stop: 37444, Start Num: 2

Candidate Starts for Reptar3000\_53:

(Start: 2 @37205 has 21 MA's), (4, 37274),

Gene: Ruthiejr\_56 Start: 38011, Stop: 38250, Start Num: 2

Candidate Starts for Ruthiejr\_56:

(Start: 1 @38008 has 1 MA's), (Start: 2 @38011 has 21 MA's), (3, 38023), (4, 38080), (5, 38125), (6, 38170),

Gene: SamScheppers\_53 Start: 38440, Stop: 38679, Start Num: 2

Candidate Starts for SamScheppers\_53:

(Start: 1 @38437 has 1 MA's), (Start: 2 @38440 has 21 MA's), (3, 38452), (4, 38509), (5, 38554), (6, 38599),

Gene: Slarp\_55 Start: 37968, Stop: 38207, Start Num: 2

Candidate Starts for Slarp\_55:

(Start: 1 @37965 has 1 MA's), (Start: 2 @37968 has 21 MA's), (3, 37980), (4, 38037), (5, 38082), (6, 38127),

Gene: Taquito\_55 Start: 38293, Stop: 38535, Start Num: 1

Candidate Starts for Taquito\_55:

(Start: 1 @38293 has 1 MA's), (Start: 2 @38296 has 21 MA's), (3, 38308), (4, 38365), (5, 38410), (6, 38455),

Gene: Wintermute\_55 Start: 38198, Stop: 38437, Start Num: 2

Candidate Starts for Wintermute\_55:

(Start: 1 @38195 has 1 MA's), (Start: 2 @38198 has 21 MA's), (3, 38210), (4, 38267), (5, 38312), (6, 38357),

Gene: Y10\_54 Start: 38120, Stop: 38359, Start Num: 2

Candidate Starts for Y10\_54:

(Start: 1 @38117 has 1 MA's), (Start: 2 @38120 has 21 MA's), (3, 38132), (4, 38189), (5, 38234), (6, 38279),

Gene: Y2\_54 Start: 38120, Stop: 38359, Start Num: 2

Candidate Starts for Y2\_54:

(Start: 1 @38117 has 1 MA's), (Start: 2 @38120 has 21 MA's), (3, 38132), (4, 38189), (5, 38234), (6, 38279),

Gene: YasnayaPolyana\_55 Start: 38051, Stop: 38290, Start Num: 2

Candidate Starts for YasnayaPolyana\_55:

(Start: 1 @38048 has 1 MA's), (Start: 2 @38051 has 21 MA's), (3, 38063), (4, 38120), (5, 38165), (6, 38210),