

Pham 303567



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 303567 Report

This analysis was run 06/08/26 on database version 649.

Pham number 303567 has 31 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Emianna\_73, NatB6\_73, Kurt\_73
- Track 2 : Kabluna\_76
- Track 3 : Buggaboo\_75, SuperSulley\_75, NosilaM\_74
- Track 4 : Outis\_74, MerCougar\_76, StarStruck\_74
- Track 5 : Commandaria\_73
- Track 6 : KidneyBean\_73, Wheezy\_73, NovumRegina\_73, GrootJr\_75, Jifall16\_72, Arti\_72, Phomeo\_72, Foxboro\_73
- Track 7 : GTE8\_61
- Track 8 : Tracker\_73
- Track 9 : Bonum\_77
- Track 10 : NadineRae\_72
- Track 11 : Pemberton\_74, Marietta\_73, WhoseManz\_72
- Track 12 : BiPauneto\_75
- Track 13 : IDyn\_70
- Track 14 : HubbaBubba\_68
- Track 15 : Sukkupi\_72, Yndexa\_72

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

The start number called the most often in the published annotations is 5, it was called in 12 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arti\_72, Emianna\_73, Foxboro\_73, GTE8\_61, GrootJr\_75, Jifall16\_72, KidneyBean\_73, Kurt\_73, NatB6\_73, NovumRegina\_73, Phomeo\_72, Tracker\_73, Wheezy\_73,

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

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

- BiPauneto\_75, Bonum\_77, Buggaboo\_75, Commandaria\_73, HubbaBubba\_68, IDyn\_70, Kabluna\_76, Marietta\_73, MerCougar\_76, NadineRae\_72, NosilaM\_74, Outis\_74, Pemberton\_74, StarStruck\_74, Sukkupi\_72, SuperSulley\_75,

WhoseManz\_72, Yndexa\_72,

### Summary by start number:

Start 4:

- Found in 8 of 31 ( 25.8% ) of genes in pham
- Manual Annotations of this start: 8 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bonum\_77 (CR2), Buggaboo\_75 (CR2), Kabluna\_76 (CR2), MerCougar\_76 (CR2), NosilaM\_74 (CR2), Outis\_74 (CR2), StarStruck\_74 (CR2), SuperSulley\_75 (CR2),

Start 5:

- Found in 13 of 31 ( 41.9% ) of genes in pham
- Manual Annotations of this start: 12 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arti\_72 (CR2), Emianna\_73 (CR2), Foxboro\_73 (CR2), GTE8\_61 (CR2), GrootJr\_75 (CR2), Jifall16\_72 (CR2), KidneyBean\_73 (CR2), Kurt\_73 (CR2), NatB6\_73 (CR2), NovumRegina\_73 (CR2), Phomeo\_72 (CR2), Tracker\_73 (CR2), Wheezy\_73 (CR2),

Start 6:

- Found in 10 of 31 ( 32.3% ) of genes in pham
- Manual Annotations of this start: 9 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BiPauneto\_75 (CR4), Commandaria\_73 (CR2), HubbaBubba\_68 (CR4), IDyn\_70 (CR4), Marietta\_73 (CR4), NadineRae\_72 (CR4), Pemberton\_74 (CR4), Sukkupi\_72 (CR4), WhoseManz\_72 (CR4), Yndexa\_72 (CR4),

### Summary by clusters:

There are 2 clusters represented in this pham: CR2, CR4,

Info for manual annotations of cluster CR2:

- Start number 4 was manually annotated 8 times for cluster CR2.
- Start number 5 was manually annotated 12 times for cluster CR2.
- Start number 6 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR4:

- Start number 6 was manually annotated 8 times for cluster CR4.

### Gene Information:

Gene: Arti\_72 Start: 55984, Stop: 55409, Start Num: 5

Candidate Starts for Arti\_72:

(Start: 5 @55984 has 12 MA's), (8, 55939), (11, 55855), (23, 55531),

Gene: BiPauneto\_75 Start: 55359, Stop: 54766, Start Num: 6

Candidate Starts for BiPauneto\_75:

(Start: 6 @55359 has 9 MA's), (10, 55245), (11, 55242), (13, 55230), (15, 55188), (17, 55011), (18, 55008), (21, 54942), (22, 54897), (26, 54783),

Gene: Bonum\_77 Start: 57141, Stop: 56572, Start Num: 4

Candidate Starts for Bonum\_77:

(Start: 4 @57141 has 8 MA's), (11, 57000), (21, 56718), (22, 56673), (24, 56652),

Gene: Buggaboo\_75 Start: 57707, Stop: 57138, Start Num: 4

Candidate Starts for Buggaboo\_75:

(Start: 4 @57707 has 8 MA's), (11, 57566), (21, 57284), (24, 57218),

Gene: Commandaria\_73 Start: 56963, Stop: 56376, Start Num: 6

Candidate Starts for Commandaria\_73:

(2, 57164), (Start: 6 @56963 has 9 MA's), (9, 56864), (11, 56846), (16, 56759), (19, 56603), (25, 56453), (26, 56393),

Gene: Emianna\_73 Start: 57195, Stop: 56620, Start Num: 5

Candidate Starts for Emianna\_73:

(Start: 5 @57195 has 12 MA's), (8, 57150), (9, 57084), (11, 57066), (23, 56742),

Gene: Foxboro\_73 Start: 57407, Stop: 56832, Start Num: 5

Candidate Starts for Foxboro\_73:

(Start: 5 @57407 has 12 MA's), (8, 57362), (11, 57278), (23, 56954),

Gene: GTE8\_61 Start: 50187, Stop: 49612, Start Num: 5

Candidate Starts for GTE8\_61:

(3, 50244), (Start: 5 @50187 has 12 MA's), (8, 50142), (11, 50058),

Gene: GrootJr\_75 Start: 56589, Stop: 56014, Start Num: 5

Candidate Starts for GrootJr\_75:

(Start: 5 @56589 has 12 MA's), (8, 56544), (11, 56460), (23, 56136),

Gene: HubbaBubba\_68 Start: 52207, Stop: 51614, Start Num: 6

Candidate Starts for HubbaBubba\_68:

(Start: 6 @52207 has 9 MA's), (11, 52090), (12, 52081), (13, 52078), (14, 52042), (15, 52036), (17, 51859), (18, 51856), (21, 51790),

Gene: IDyn\_70 Start: 52954, Stop: 52361, Start Num: 6

Candidate Starts for IDyn\_70:

(Start: 6 @52954 has 9 MA's), (10, 52840), (11, 52837), (13, 52825), (15, 52783), (17, 52606), (18, 52603), (21, 52537),

Gene: Jifall16\_72 Start: 56900, Stop: 56325, Start Num: 5

Candidate Starts for Jifall16\_72:

(Start: 5 @56900 has 12 MA's), (8, 56855), (11, 56771), (23, 56447),

Gene: Kabluna\_76 Start: 56470, Stop: 55901, Start Num: 4

Candidate Starts for Kabluna\_76:

(Start: 4 @56470 has 8 MA's), (11, 56329), (21, 56047), (24, 55981),

Gene: KidneyBean\_73 Start: 57024, Stop: 56449, Start Num: 5

Candidate Starts for KidneyBean\_73:

(Start: 5 @57024 has 12 MA's), (8, 56979), (11, 56895), (23, 56571),

Gene: Kurt\_73 Start: 57210, Stop: 56635, Start Num: 5

Candidate Starts for Kurt\_73:

(Start: 5 @57210 has 12 MA's), (8, 57165), (9, 57099), (11, 57081), (23, 56757),

Gene: Marietta\_73 Start: 53254, Stop: 52661, Start Num: 6

Candidate Starts for Marietta\_73:

(Start: 6 @53254 has 9 MA's), (10, 53140), (11, 53137), (13, 53125), (15, 53083), (17, 52906), (18, 52903), (21, 52837),

Gene: MerCougar\_76 Start: 58174, Stop: 57617, Start Num: 4

Candidate Starts for MerCougar\_76:

(Start: 4 @58174 has 8 MA's), (7, 58129), (11, 58036), (21, 57754), (24, 57688),

Gene: NadineRae\_72 Start: 52863, Stop: 52270, Start Num: 6

Candidate Starts for NadineRae\_72:

(Start: 6 @52863 has 9 MA's), (11, 52746), (12, 52737), (13, 52734), (14, 52698), (17, 52515), (18, 52512), (20, 52467), (21, 52446),

Gene: NatB6\_73 Start: 56300, Stop: 55725, Start Num: 5

Candidate Starts for NatB6\_73:

(Start: 5 @56300 has 12 MA's), (8, 56255), (9, 56189), (11, 56171), (23, 55847),

Gene: NosilaM\_74 Start: 56784, Stop: 56215, Start Num: 4

Candidate Starts for NosilaM\_74:

(Start: 4 @56784 has 8 MA's), (11, 56643), (21, 56361), (24, 56295),

Gene: NovumRegina\_73 Start: 56588, Stop: 56013, Start Num: 5

Candidate Starts for NovumRegina\_73:

(Start: 5 @56588 has 12 MA's), (8, 56543), (11, 56459), (23, 56135),

Gene: Outis\_74 Start: 57266, Stop: 56709, Start Num: 4

Candidate Starts for Outis\_74:

(Start: 4 @57266 has 8 MA's), (7, 57221), (11, 57128), (21, 56846), (24, 56780),

Gene: Pemberton\_74 Start: 53434, Stop: 52841, Start Num: 6

Candidate Starts for Pemberton\_74:

(Start: 6 @53434 has 9 MA's), (10, 53320), (11, 53317), (13, 53305), (15, 53263), (17, 53086), (18, 53083), (21, 53017),

Gene: Phomeo\_72 Start: 56896, Stop: 56321, Start Num: 5

Candidate Starts for Phomeo\_72:

(Start: 5 @56896 has 12 MA's), (8, 56851), (11, 56767), (23, 56443),

Gene: StarStruck\_74 Start: 57266, Stop: 56709, Start Num: 4

Candidate Starts for StarStruck\_74:

(Start: 4 @57266 has 8 MA's), (7, 57221), (11, 57128), (21, 56846), (24, 56780),

Gene: Sukkupi\_72 Start: 54906, Stop: 54313, Start Num: 6

Candidate Starts for Sukkupi\_72:

(Start: 6 @54906 has 9 MA's), (10, 54792), (11, 54789), (12, 54780), (14, 54741), (15, 54735), (17, 54558), (18, 54555), (21, 54489), (22, 54444), (26, 54330),

Gene: SuperSulley\_75 Start: 57707, Stop: 57138, Start Num: 4  
Candidate Starts for SuperSulley\_75:  
(Start: 4 @57707 has 8 MA's), (11, 57566), (21, 57284), (24, 57218),

Gene: Tracker\_73 Start: 56044, Stop: 55469, Start Num: 5  
Candidate Starts for Tracker\_73:  
(1, 56266), (2, 56260), (Start: 5 @56044 has 12 MA's), (8, 55999), (11, 55915), (23, 55591),

Gene: Wheezy\_73 Start: 56258, Stop: 55683, Start Num: 5  
Candidate Starts for Wheezy\_73:  
(Start: 5 @56258 has 12 MA's), (8, 56213), (11, 56129), (23, 55805),

Gene: WhoseManz\_72 Start: 52921, Stop: 52328, Start Num: 6  
Candidate Starts for WhoseManz\_72:  
(Start: 6 @52921 has 9 MA's), (10, 52807), (11, 52804), (13, 52792), (15, 52750), (17, 52573), (18, 52570), (21, 52504),

Gene: Yndexa\_72 Start: 54906, Stop: 54313, Start Num: 6  
Candidate Starts for Yndexa\_72:  
(Start: 6 @54906 has 9 MA's), (10, 54792), (11, 54789), (12, 54780), (14, 54741), (15, 54735), (17, 54558), (18, 54555), (21, 54489), (22, 54444), (26, 54330),