

Pham 163662



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 163662 Report

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

Pham number 163662 has 51 members, 9 are drafts.

Phages represented in each track:

- Track 1 : SwirlSquare\_49
- Track 2 : BabyBack\_43
- Track 3 : MissWhite\_44
- Track 4 : Herbertwm\_43
- Track 5 : Kazan\_47, McFly\_46, SmellyB\_46, Dorothea\_45, EricB\_46, Hoot\_46, VohminGhazi\_46, Candra\_46, Kipper29\_46
- Track 6 : Blinn1\_49, BABullseye\_44
- Track 7 : Lilbunny\_44, Zaka\_46, Artemis2UCLA\_46, ToneTone\_43, Isiphiwo\_44, Tucker\_47, Roksolana\_47, Wiks\_45, Chartreuse\_46, Pmask\_46, Hexamo\_46, CloudWang3\_46, Yokurt\_46, WunderPhul\_46, Jeffabunny\_46, Neeharika16\_46, JewelBug\_48, Jordennis\_46, SuperAwesome\_46, Zulu\_47, Cookiedough\_46, Newrala\_46, Gruunaga\_46, DaVinci\_46
- Track 8 : Koko\_48
- Track 9 : Helmet\_48, Garak\_48, Indra\_49
- Track 10 : Priamo\_48
- Track 11 : Hammer\_48
- Track 12 : GreedyLawyer\_46
- Track 13 : Rifter\_48, Blue7\_49
- Track 14 : Charm\_43, DreamTeam1\_43
- Track 15 : SheaKeira\_44

### ***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 39 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artemis2UCLA\_46, BABullseye\_44, Blinn1\_49, Blue7\_49, Candra\_46, Charm\_43, Chartreuse\_46, CloudWang3\_46, Cookiedough\_46, DaVinci\_46, Dorothea\_45, DreamTeam1\_43, EricB\_46, Garak\_48, GreedyLawyer\_46, Gruunaga\_46, Hammer\_48, Helmet\_48, Hexamo\_46, Hoot\_46, Indra\_49, Isiphiwo\_44, Jeffabunny\_46, JewelBug\_48, Jordennis\_46, Kazan\_47, Kipper29\_46, Koko\_48, Lilbunny\_44, McFly\_46, Neeharika16\_46, Newrala\_46, Pmask\_46, Priamo\_48, Rifter\_48, Roksolana\_47, SmellyB\_46, SuperAwesome\_46, ToneTone\_43,

Tucker\_47, VohminGhazi\_46, Wiks\_45, WunderPhul\_46, Yokurt\_46, Zaka\_46, Zulu\_47,

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

- SheaKeira\_44,

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

- BabyBack\_43, Herbertwm\_43, MissWhite\_44, SwirlSquare\_49,

### Summary by start number:

Start 3:

- Found in 1 of 51 ( 2.0% ) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Herbertwm\_43 (A2),

Start 5:

- Found in 47 of 51 ( 92.2% ) of genes in pham
- Manual Annotations of this start: 39 of 42
- Called 97.9% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA\_46 (A6), BABullseye\_44 (A6), Blinn1\_49 (A6), Blue7\_49 (A6), Candra\_46 (A6), Charm\_43 (A9), Chartreuse\_46 (A6), CloudWang3\_46 (A6), Cookiedough\_46 (A6), DaVinci\_46 (A6), Dorothea\_45 (A6), DreamTeam1\_43 (A9), EricB\_46 (A6), Garak\_48 (A6), GreedyLawyer\_46 (A6), Gruunaga\_46 (A6), Hammer\_48 (A6), Helmet\_48 (A6), Hexamo\_46 (A6), Hoot\_46 (A6), Indra\_49 (A6), Isiphiwo\_44 (A6), Jeffabunny\_46 (A6), JewelBug\_48 (A6), Jordennis\_46 (A6), Kazan\_47 (A6), Kipper29\_46 (A6), Koko\_48 (A6), Lilbunny\_44 (A6), McFly\_46 (A6), Neeharika16\_46 (A6), Newrala\_46 (A6), Pmask\_46 (A6), Priamo\_48 (A6), Rifter\_48 (A6), Roksolana\_47 (A6), SmellyB\_46 (A6), SuperAwesome\_46 (A6), ToneTone\_43 (A6), Tucker\_47 (A6), VohminGhazi\_46 (A6), Wiks\_45 (A6), WunderPhul\_46 (A6), Yokurt\_46 (A6), Zaka\_46 (A6), Zulu\_47 (A6),

Start 6:

- Found in 4 of 51 ( 7.8% ) of genes in pham
- Manual Annotations of this start: 2 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BabyBack\_43 (A2), MissWhite\_44 (A2), SheaKeira\_44 (A9), SwirlSquare\_49 (A2),

### Summary by clusters:

There are 3 clusters represented in this pham: A9, A2, A6,

Info for manual annotations of cluster A2:

- Start number 3 was manually annotated 1 time for cluster A2.
- Start number 6 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A6:

- Start number 5 was manually annotated 37 times for cluster A6.

Info for manual annotations of cluster A9:

- Start number 5 was manually annotated 2 times for cluster A9.
- Start number 6 was manually annotated 1 time for cluster A9.

### **Gene Information:**

Gene: Artemis2UCLA\_46 Start: 29520, Stop: 29332, Start Num: 5

Candidate Starts for Artemis2UCLA\_46:

(Start: 5 @29520 has 39 MA's), (13, 29436), (14, 29433), (16, 29412), (18, 29388),

Gene: BABullseye\_44 Start: 29366, Stop: 29178, Start Num: 5

Candidate Starts for BABullseye\_44:

(Start: 5 @29366 has 39 MA's), (13, 29282), (14, 29279), (16, 29258),

Gene: BabyBack\_43 Start: 32081, Stop: 31851, Start Num: 6

Candidate Starts for BabyBack\_43:

(1, 32216), (Start: 6 @32081 has 2 MA's), (11, 32027), (15, 31988), (22, 31913),

Gene: Blinn1\_49 Start: 30331, Stop: 30152, Start Num: 5

Candidate Starts for Blinn1\_49:

(Start: 5 @30331 has 39 MA's), (13, 30247), (14, 30244), (16, 30223),

Gene: Blue7\_49 Start: 30167, Stop: 29988, Start Num: 5

Candidate Starts for Blue7\_49:

(Start: 5 @30167 has 39 MA's), (9, 30122), (14, 30080), (17, 30038), (20, 30014),

Gene: Candra\_46 Start: 29859, Stop: 29671, Start Num: 5

Candidate Starts for Candra\_46:

(Start: 5 @29859 has 39 MA's), (9, 29814), (14, 29772), (18, 29727),

Gene: Charm\_43 Start: 31035, Stop: 30844, Start Num: 5

Candidate Starts for Charm\_43:

(1, 31164), (Start: 5 @31035 has 39 MA's), (11, 30984), (23, 30852),

Gene: Chartreuse\_46 Start: 29770, Stop: 29582, Start Num: 5

Candidate Starts for Chartreuse\_46:

(Start: 5 @29770 has 39 MA's), (13, 29686), (14, 29683), (16, 29662), (18, 29638),

Gene: CloudWang3\_46 Start: 29620, Stop: 29432, Start Num: 5

Candidate Starts for CloudWang3\_46:

(Start: 5 @29620 has 39 MA's), (13, 29536), (14, 29533), (16, 29512), (18, 29488),

Gene: Cookiedough\_46 Start: 29835, Stop: 29647, Start Num: 5

Candidate Starts for Cookiedough\_46:

(Start: 5 @29835 has 39 MA's), (13, 29751), (14, 29748), (16, 29727), (18, 29703),

Gene: DaVinci\_46 Start: 29824, Stop: 29636, Start Num: 5

Candidate Starts for DaVinci\_46:

(Start: 5 @29824 has 39 MA's), (13, 29740), (14, 29737), (16, 29716), (18, 29692),

Gene: Dorothea\_45 Start: 29842, Stop: 29654, Start Num: 5

Candidate Starts for Dorothea\_45:

(Start: 5 @29842 has 39 MA's), (9, 29797), (14, 29755), (18, 29710),

Gene: DreamTeam1\_43 Start: 30909, Stop: 30718, Start Num: 5

Candidate Starts for DreamTeam1\_43:

(1, 31038), (Start: 5 @30909 has 39 MA's), (11, 30858), (23, 30726),

Gene: EricB\_46 Start: 29816, Stop: 29628, Start Num: 5

Candidate Starts for EricB\_46:

(Start: 5 @29816 has 39 MA's), (9, 29771), (14, 29729), (18, 29684),

Gene: Garak\_48 Start: 29987, Stop: 29799, Start Num: 5

Candidate Starts for Garak\_48:

(Start: 5 @29987 has 39 MA's), (14, 29900), (16, 29879), (18, 29855),

Gene: GreedyLawyer\_46 Start: 29823, Stop: 29635, Start Num: 5

Candidate Starts for GreedyLawyer\_46:

(Start: 5 @29823 has 39 MA's), (9, 29778), (13, 29739), (14, 29736), (16, 29715), (18, 29691),

Gene: Gruunaga\_46 Start: 29823, Stop: 29635, Start Num: 5

Candidate Starts for Gruunaga\_46:

(Start: 5 @29823 has 39 MA's), (13, 29739), (14, 29736), (16, 29715), (18, 29691),

Gene: Hammer\_48 Start: 29977, Stop: 29798, Start Num: 5

Candidate Starts for Hammer\_48:

(Start: 5 @29977 has 39 MA's), (9, 29932), (17, 29848), (20, 29824),

Gene: Helmet\_48 Start: 29987, Stop: 29799, Start Num: 5

Candidate Starts for Helmet\_48:

(Start: 5 @29987 has 39 MA's), (14, 29900), (16, 29879), (18, 29855),

Gene: Herbertwm\_43 Start: 30942, Stop: 30700, Start Num: 3

Candidate Starts for Herbertwm\_43:

(Start: 3 @30942 has 1 MA's), (4, 30933), (8, 30882), (10, 30861), (12, 30846), (14, 30825), (21, 30753),

Gene: Hexamo\_46 Start: 29608, Stop: 29420, Start Num: 5

Candidate Starts for Hexamo\_46:

(Start: 5 @29608 has 39 MA's), (13, 29524), (14, 29521), (16, 29500), (18, 29476),

Gene: Hoot\_46 Start: 29801, Stop: 29613, Start Num: 5

Candidate Starts for Hoot\_46:

(Start: 5 @29801 has 39 MA's), (9, 29756), (14, 29714), (18, 29669),

Gene: Indra\_49 Start: 29988, Stop: 29800, Start Num: 5

Candidate Starts for Indra\_49:

(Start: 5 @29988 has 39 MA's), (14, 29901), (16, 29880), (18, 29856),

Gene: Isiphiwo\_44 Start: 29360, Stop: 29172, Start Num: 5

Candidate Starts for Isiphiwo\_44:

(Start: 5 @29360 has 39 MA's), (13, 29276), (14, 29273), (16, 29252), (18, 29228),

Gene: Jeffabunny\_46 Start: 29644, Stop: 29456, Start Num: 5

Candidate Starts for Jeffabunny\_46:

(Start: 5 @29644 has 39 MA's), (13, 29560), (14, 29557), (16, 29536), (18, 29512),

Gene: JewelBug\_48 Start: 29992, Stop: 29804, Start Num: 5

Candidate Starts for JewelBug\_48:

(Start: 5 @29992 has 39 MA's), (13, 29908), (14, 29905), (16, 29884), (18, 29860),

Gene: Jordennis\_46 Start: 29831, Stop: 29643, Start Num: 5

Candidate Starts for Jordennis\_46:

(Start: 5 @29831 has 39 MA's), (13, 29747), (14, 29744), (16, 29723), (18, 29699),

Gene: Kazan\_47 Start: 29829, Stop: 29641, Start Num: 5

Candidate Starts for Kazan\_47:

(Start: 5 @29829 has 39 MA's), (9, 29784), (14, 29742), (18, 29697),

Gene: Kipper29\_46 Start: 29842, Stop: 29654, Start Num: 5

Candidate Starts for Kipper29\_46:

(Start: 5 @29842 has 39 MA's), (9, 29797), (14, 29755), (18, 29710),

Gene: Koko\_48 Start: 30516, Stop: 30337, Start Num: 5

Candidate Starts for Koko\_48:

(Start: 5 @30516 has 39 MA's), (9, 30471), (17, 30387), (20, 30363),

Gene: Lilbunny\_44 Start: 29618, Stop: 29430, Start Num: 5

Candidate Starts for Lilbunny\_44:

(Start: 5 @29618 has 39 MA's), (13, 29534), (14, 29531), (16, 29510), (18, 29486),

Gene: McFly\_46 Start: 29823, Stop: 29635, Start Num: 5

Candidate Starts for McFly\_46:

(Start: 5 @29823 has 39 MA's), (9, 29778), (14, 29736), (18, 29691),

Gene: MissWhite\_44 Start: 29921, Stop: 29754, Start Num: 6

Candidate Starts for MissWhite\_44:

(Start: 6 @29921 has 2 MA's), (11, 29867),

Gene: Neeharika16\_46 Start: 29834, Stop: 29646, Start Num: 5

Candidate Starts for Neeharika16\_46:

(Start: 5 @29834 has 39 MA's), (13, 29750), (14, 29747), (16, 29726), (18, 29702),

Gene: Newrala\_46 Start: 29834, Stop: 29646, Start Num: 5

Candidate Starts for Newrala\_46:

(Start: 5 @29834 has 39 MA's), (13, 29750), (14, 29747), (16, 29726), (18, 29702),

Gene: Pmask\_46 Start: 29835, Stop: 29647, Start Num: 5

Candidate Starts for Pmask\_46:

(Start: 5 @29835 has 39 MA's), (13, 29751), (14, 29748), (16, 29727), (18, 29703),

Gene: Priamo\_48 Start: 30135, Stop: 29947, Start Num: 5

Candidate Starts for Priamo\_48:

(2, 30213), (Start: 5 @30135 has 39 MA's), (13, 30051), (14, 30048), (16, 30027), (18, 30003),

Gene: Rifter\_48 Start: 29940, Stop: 29761, Start Num: 5

Candidate Starts for Rifter\_48:

(Start: 5 @29940 has 39 MA's), (9, 29895), (14, 29853), (17, 29811), (20, 29787),

Gene: Roksolana\_47 Start: 29871, Stop: 29683, Start Num: 5

Candidate Starts for Roksolana\_47:

(Start: 5 @29871 has 39 MA's), (13, 29787), (14, 29784), (16, 29763), (18, 29739),

Gene: SheaKeira\_44 Start: 31011, Stop: 30799, Start Num: 6

Candidate Starts for SheaKeira\_44:

(1, 31143), (Start: 5 @31014 has 39 MA's), (Start: 6 @31011 has 2 MA's), (7, 30999), (11, 30960), (18, 30879), (19, 30867),

Gene: SmellyB\_46 Start: 29823, Stop: 29635, Start Num: 5

Candidate Starts for SmellyB\_46:

(Start: 5 @29823 has 39 MA's), (9, 29778), (14, 29736), (18, 29691),

Gene: SuperAwesome\_46 Start: 29834, Stop: 29646, Start Num: 5

Candidate Starts for SuperAwesome\_46:

(Start: 5 @29834 has 39 MA's), (13, 29750), (14, 29747), (16, 29726), (18, 29702),

Gene: SwirlSquare\_49 Start: 30451, Stop: 30257, Start Num: 6

Candidate Starts for SwirlSquare\_49:

(Start: 6 @30451 has 2 MA's), (15, 30358), (17, 30319), (21, 30292), (23, 30265),

Gene: ToneTone\_43 Start: 29550, Stop: 29362, Start Num: 5

Candidate Starts for ToneTone\_43:

(Start: 5 @29550 has 39 MA's), (13, 29466), (14, 29463), (16, 29442), (18, 29418),

Gene: Tucker\_47 Start: 29988, Stop: 29800, Start Num: 5

Candidate Starts for Tucker\_47:

(Start: 5 @29988 has 39 MA's), (13, 29904), (14, 29901), (16, 29880), (18, 29856),

Gene: VohminGhazi\_46 Start: 29824, Stop: 29636, Start Num: 5

Candidate Starts for VohminGhazi\_46:

(Start: 5 @29824 has 39 MA's), (9, 29779), (14, 29737), (18, 29692),

Gene: Wiks\_45 Start: 29618, Stop: 29430, Start Num: 5

Candidate Starts for Wiks\_45:

(Start: 5 @29618 has 39 MA's), (13, 29534), (14, 29531), (16, 29510), (18, 29486),

Gene: WunderPhul\_46 Start: 29616, Stop: 29428, Start Num: 5

Candidate Starts for WunderPhul\_46:

(Start: 5 @29616 has 39 MA's), (13, 29532), (14, 29529), (16, 29508), (18, 29484),

Gene: Yokurt\_46 Start: 29618, Stop: 29430, Start Num: 5

Candidate Starts for Yokurt\_46:

(Start: 5 @29618 has 39 MA's), (13, 29534), (14, 29531), (16, 29510), (18, 29486),

Gene: Zaka\_46 Start: 29618, Stop: 29430, Start Num: 5

Candidate Starts for Zaka\_46:

(Start: 5 @29618 has 39 MA's), (13, 29534), (14, 29531), (16, 29510), (18, 29486),

Gene: Zulu\_47 Start: 29969, Stop: 29781, Start Num: 5

Candidate Starts for Zulu\_47:

(Start: 5 @29969 has 39 MA's), (13, 29885), (14, 29882), (16, 29861), (18, 29837),

