# Pham 87594

1: Kabocha_21 + 3
2: ChisanaKitsune_16 + 1
3: UBSmoodge_21 + 1
4: Chidiebere_20 + 1
5: Schomber_19
6: FlyingTortilla_19

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 87594 Report

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

Pham number 87594 has 12 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Kabocha_21, Aloki_19, Hanem_20, Pakusa_19
• Track 2 : ChisanaKitsune_16, Oogie_19
• Track 3 : UBSmoodge_21, ScarletRaider_19
• Track 4 : Chidiebere_20, Gray_20
• Track 5 : Schomber_19
• Track 6 : FlyingTortilla_19

***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 4 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aloki_19, ChisanaKitsune_16, FlyingTortilla_19, Hanem_20, Kabocha_21, Oogie_19, Pakusa_19, ScarletRaider_19, Schomber_19, UBSmoodge_21,

Genes that have the "Most Annotated" start but do not call it:
• Chidiebere_20, Gray_20,

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

**Summary by start number:**

Start 3:
• Found in 12 of 12 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 2 of 6
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Chidiebere_20 (DQ), Gray_20 (DQ),

Start 4:
• Found in 12 of 12 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 4 of 6
• Called 83.3% of time when present

• Phage (with cluster) where this start called: Aloki_19 (DQ), ChisanaKitsune_16 (DQ), FlyingTortilla_19 (DQ), Hanem_20 (DQ), Kabocha_21 (DQ), Oogie_19 (DQ), Pakusa_19 (DQ), ScarletRaider_19 (DQ), Schomber_19 (DQ), UBSmoodge_21 (DQ),

**Summary by clusters:**

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:
•Start number 3 was manually annotated 2 times for cluster DQ.
•Start number 4 was manually annotated 4 times for cluster DQ.

***Gene Information:***

Gene: Aloki_19 Start: 8249, Stop: 8545, Start Num: 4
Candidate Starts for Aloki_19:
(2, 8231), (Start: 3 @8246 has 2 MA's), (Start: 4 @8249 has 4 MA's), (5, 8273), (6, 8288), (7, 8327), (8, 8330), (9, 8333), (10, 8342), (12, 8399), (13, 8432), (15, 8441), (16, 8474),

Gene: Chidiebere_20 Start: 8246, Stop: 8545, Start Num: 3
Candidate Starts for Chidiebere_20:
(2, 8231), (Start: 3 @8246 has 2 MA's), (Start: 4 @8249 has 4 MA's), (5, 8273), (6, 8288), (7, 8327), (8, 8330), (9, 8333), (10, 8342), (12, 8399), (13, 8432), (15, 8441), (16, 8474),

Gene: ChisanaKitsune_16 Start: 6950, Stop: 7246, Start Num: 4
Candidate Starts for ChisanaKitsune_16:
(Start: 3 @6947 has 2 MA's), (Start: 4 @6950 has 4 MA's), (6, 6989), (7, 7028), (8, 7031), (9, 7034), (10, 7043), (12, 7100), (13, 7133), (15, 7142), (16, 7175),

Gene: FlyingTortilla_19 Start: 9321, Stop: 9617, Start Num: 4
Candidate Starts for FlyingTortilla_19:
(1, 9282), (Start: 3 @9318 has 2 MA's), (Start: 4 @9321 has 4 MA's), (8, 9393), (11, 9450), (13, 9492), (14, 9498), (15, 9501), (16, 9534),

Gene: Gray_20 Start: 8246, Stop: 8545, Start Num: 3
Candidate Starts for Gray_20:
(2, 8231), (Start: 3 @8246 has 2 MA's), (Start: 4 @8249 has 4 MA's), (5, 8273), (6, 8288), (7, 8327), (8, 8330), (9, 8333), (10, 8342), (12, 8399), (13, 8432), (15, 8441), (16, 8474),

Gene: Hanem_20 Start: 8249, Stop: 8545, Start Num: 4
Candidate Starts for Hanem_20:
(2, 8231), (Start: 3 @8246 has 2 MA's), (Start: 4 @8249 has 4 MA's), (5, 8273), (6, 8288), (7, 8327), (8, 8330), (9, 8333), (10, 8342), (12, 8399), (13, 8432), (15, 8441), (16, 8474),

Gene: Kabocha_21 Start: 9062, Stop: 9358, Start Num: 4
Candidate Starts for Kabocha_21:
(2, 9044), (Start: 3 @9059 has 2 MA's), (Start: 4 @9062 has 4 MA's), (5, 9086), (6, 9101), (7, 9140), (8, 9143), (9, 9146), (10, 9155), (12, 9212), (13, 9245), (15, 9254), (16, 9287),

Gene: Oogie_19 Start: 7901, Stop: 8197, Start Num: 4

Candidate Starts for Oogie_19:
(Start: 3 @7898 has 2 MA's), (Start: 4 @7901 has 4 MA's), (6, 7940), (7, 7979), (8, 7982), (9, 7985), (10, 7994), (12, 8051), (13, 8084), (15, 8093), (16, 8126),

Gene: Pakusa_19 Start: 7991, Stop: 8287, Start Num: 4
Candidate Starts for Pakusa_19:
(2, 7973), (Start: 3 @7988 has 2 MA's), (Start: 4 @7991 has 4 MA's), (5, 8015), (6, 8030), (7, 8069), (8, 8072), (9, 8075), (10, 8084), (12, 8141), (13, 8174), (15, 8183), (16, 8216),

Gene: ScarletRaider_19 Start: 9348, Stop: 9644, Start Num: 4
Candidate Starts for ScarletRaider_19:
(1, 9309), (Start: 3 @9345 has 2 MA's), (Start: 4 @9348 has 4 MA's), (8, 9420), (11, 9477), (12, 9486), (13, 9519), (14, 9525), (15, 9528), (16, 9561),

Gene: Schomber_19 Start: 7999, Stop: 8295, Start Num: 4
Candidate Starts for Schomber_19:
(1, 7960), (Start: 3 @7996 has 2 MA's), (Start: 4 @7999 has 4 MA's), (5, 8023), (6, 8038), (7, 8077), (8, 8080), (9, 8083), (10, 8092), (12, 8149), (13, 8182), (15, 8191), (16, 8224),

Gene: UBSmoodge_21 Start: 9817, Stop: 10113, Start Num: 4
Candidate Starts for UBSmoodge_21:
(1, 9778), (Start: 3 @9814 has 2 MA's), (Start: 4 @9817 has 4 MA's), (8, 9889), (11, 9946), (12, 9955), (13, 9988), (14, 9994), (15, 9997), (16, 10030),