Pham 86705


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 86705 Report

This analysis was run 04/05/24 on database version 557.
Pham number 86705 has 26 members, 8 are drafts.
Phages represented in each track:

- Track 1 : Shepard_21, LilHuddy_21
- Track 2 : Phaby_21, Tokki_21
- Track 3 : Ingrid_24, Lorettā24
- Track 4 : Makai_24, Truckee_23
- Track 5 : Uzumāki_24, GantcherGoblin_23, Argan_23, Zeina_24
- Track 6 : BarbieDoll_27, Lewando_27
- Track 7 : Renaldo_29
- Track 8 : Leathea-24
- Track 9 : WilliamStrong_20
- Track 10 : DizzyRudy_22
- Track 11 : Camille_22
- Track 12 : Damascus_22
- Track 13 : Arzan_17
- Track 14 : Jazzy 4900 19, Sunny4976_18
- Track 15 : Paella_35, Qui_35, Elver_3̄̄


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

The start number called the most often in the published annotations is 1 , it was called in 17 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Argan_23, Arzan_17, BarbieDoll_27, Camille_22, DizzyRudy_22, Elver_34,

GantchērGoblin_2̄̄3, Ingrid_24, Jaz̄zy4900_19, Leathea_24, Lewando_27, LilHuddy_21, Loretta_24, Makai_24, Paella_35, Phaby_21, Qui_35, Renaldo_29,
Shepard_21, Sunny4976_18, Tokki_21, Truckee_23, Uzumaki_24, WilliamStrong_20, Zeina_24,

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

- Damascus_22,

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

## Summary by start number:

Start 1:

- Found in 26 of 26 ( $100.0 \%$ ) of genes in pham
- Manual Annotations of this start: 17 of 18
- Called $96.2 \%$ of time when present
- Phage (with cluster) where this start called: Argan_23 (AU6), Arzan_17 (FI), BarbieDoll_27 (AU6), Camille_22 (EL), DizzyRudy 22 (EL), Elver_34 (FK), GantcherGoblin_23 (AU6), Ingrid_24 (AU3), Jazzy4900_19 (FI), Leathea_24 (AU6), Lewando_27 (AŪ6), LilHuddy 21 (AU2), Loretta 24 (AU3), Makai_24 (AU5), Paella_35 (FK), Phaby 21 (AŪ2), Qui 35 (FK), Renaldo_29 (AU6), Shepard_21 (AU2), Sunny4976_18(FI), Tokki_21 (AU2), Truckee_23 (AU5), Uzumaki_24 (AU6), WilliamStrong_20 (EA6), Zeina_24 (AU6),

Start 9:

- Found in 5 of 26 ( $19.2 \%$ ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 20.0\% of time when present
- Phage (with cluster) where this start called: Damascus_22 (EL),


## Summary by clusters:

There are 8 clusters represented in this pham: EL, AU3, AU2, AU5, AU6, FI, FK, EA6,
Info for manual annotations of cluster AU2:

- Start number 1 was manually annotated 3 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 1 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU5:

- Start number 1 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU6:

- Start number 1 was manually annotated 5 times for cluster AU6.

Info for manual annotations of cluster EA6:

- Start number 1 was manually annotated 1 time for cluster EA6.

Info for manual annotations of cluster EL:

- Start number 1 was manually annotated 2 times for cluster EL.
- Start number 9 was manually annotated 1 time for cluster EL.

Info for manual annotations of cluster FK:
-Start number 1 was manually annotated 2 times for cluster FK.

## Gene Information:

Gene: Argan_23 Start: 18250, Stop: 18561, Start Num: 1
Candidate Starts for Argan_23:
(Start: 1 @18250 has 17 MA's), (22, 18502), (24, 18526), (25, 18541), (28, 18556),
Gene: Arzan_17 Start: 13586, Stop: 13897, Start Num: 1
Candidate Starts for Arzan_17:
(Start: 1 @13586 has 17 MA's), (7, 13643), (27, 13886),
Gene: BarbieDoll_27 Start: 20223, Stop: 20528, Start Num: 1
Candidate Starts for BarbieDoll_27:
(Start: 1 @20223 has 17 MA's), (3, 20244), (15, 20364), (19, 20427), (25, 20508), (28, 20523),

Gene: Camille_22 Start: 15564, Stop: 15866, Start Num: 1
Candidate Starts for Camille_22:
(Start: 1 @15564 has 17 MA's), (13, 15675), (16, 15720), (23, 15807), (26, 15840),
Gene: Damascus_22 Start: 16333, Stop: 16548, Start Num: 9
Candidate Starts for Damascus_22:
(Start: 1 @16246 has 17 MA's), (4, 16261), (5, 16285), (Start: 9 @16333 has 1 MA's), (17, 16408), (23, 16489),

Gene: DizzyRudy_22 Start: 16175, Stop: 16477, Start Num: 1 Candidate Starts for DizzyRudy_22:
(Start: 1 @16175 has 17 MA's), (4, 16190), (5, 16214), (Start: 9 @16262 has 1 MA's), (10, 16265), (17, 16337), (23, 16418),

Gene: Elver_34 Start: 24623, Stop: 24928, Start Num: 1
Candidate Starts for Elver_34:
(Start: 1 @24623 has 17 MA's), (7, 24680), (Start: 9 @24722 has 1 MA's), (22, 24866), (27, 24917),
Gene: GantcherGoblin_23 Start: 18289, Stop: 18600, Start Num: 1
Candidate Starts for GāntcherGoblin_23:
(Start: 1 @18289 has 17 MA's), (22, 18541), (24, 18565), (25, 18580), (28, 18595),
Gene: Ingrid_24 Start: 19170, Stop: 19475, Start Num: 1
Candidate Starts for Ingrid_24:
(Start: 1 @19170 has 17 MA's), (18, 19353), (20, 19377),

Gene: Jazzy4900_19 Start: 13619, Stop: 13924, Start Num: 1
Candidate Starts for Jazzy4900_19:
(Start: 1 @13619 has 17 MA's), (7, 13676), (21, 13826), (25, 13901),
Gene: Leathea_24 Start: 18272, Stop: 18577, Start Num: 1
Candidate Starts for Leathea_24:
(Start: 1 @18272 has 17 MA's), (6, 18329), (22, 18518), (25, 18557), (28, 18572),
Gene: Lewando_27 Start: 20205, Stop: 20510, Start Num: 1
Candidate Starts for Lewando_27:
(Start: 1 @20205 has 17 MA's), (3, 20226), (15, 20346), (19, 20409), (25, 20490), (28, 20505),
Gene: LilHuddy_21 Start: 15875, Stop: 16204, Start Num: 1
Candidate Starts for LilHuddy_21:
(Start: 1 @15875 has 17 MA's), (2, 15893), (12, 15992), (22, 16130),
Gene: Loretta_24 Start: 19170, Stop: 19475, Start Num: 1

Candidate Starts for Loretta_24:
(Start: 1 @19170 has 17 MA's), (18, 19353), (20, 19377),
Gene: Makai_24 Start: 19380, Stop: 19715, Start Num: 1
Candidate Starts for Makai_24:
(Start: 1 @19380 has 17 MA's), (2, 19398), (8, 19464), (20, 19593), (25, 19671), (29, 19710),
Gene: Paella_35 Start: 24625, Stop: 24930, Start Num: 1
Candidate Starts for Paella_35:
(Start: 1 @24625 has 17 MA's), (7, 24682), (Start: 9 @24724 has 1 MA's), (22, 24868), (27, 24919),
Gene: Phaby_21 Start: 15846, Stop: 16157, Start Num: 1
Candidate Starts for Phaby_21:
(Start: 1 @15846 has 17 MA's), (2, 15864), (21, 16047), (22, 16083),
Gene: Qui_35 Start: 24625, Stop: 24930, Start Num: 1
Candidate Starts for Qui_35:
(Start: 1 @24625 has 17 MA's), (7, 24682), (Start: 9 @24724 has 1 MA's), (22, 24868), (27, 24919),
Gene: Renaldo_29 Start: 20214, Stop: 20519, Start Num: 1
Candidate Starts for Renaldo_29:
(Start: 1 @20214 has 17 MA's), (3, 20235), (15, 20355), (25, 20499), (28, 20514),
Gene: Shepard_21 Start: 15872, Stop: 16201, Start Num: 1
Candidate Starts for Shepard_21:
(Start: 1 @15872 has 17 MA's), (2, 15890), (12, 15989), (22, 16127),
Gene: Sunny4976_18 Start: 13619, Stop: 13924, Start Num: 1
Candidate Starts for Sunny4976_18:
(Start: 1 @13619 has 17 MA's), $\overline{(7,13676), ~}(21,13826),(25,13901)$,
Gene: Tokki_21 Start: 15896, Stop: 16207, Start Num: 1
Candidate Starts for Tokki_21:
(Start: 1 @15896 has 17 MA's), $(2,15914),(21,16097),(22,16133)$,
Gene: Truckee_23 Start: 19425, Stop: 19760, Start Num: 1
Candidate Starts for Truckee_23:
(Start: 1 @19425 has 17 MA's), (2, 19443), (8, 19509), (20, 19638), (25, 19716), (29, 19755),
Gene: Uzumaki_24 Start: 19108, Stop: 19419, Start Num: 1
Candidate Starts for Uzumaki_24:
(Start: 1 @19108 has 17 MA's), (22, 19360), (24, 19384), (25, 19399), (28, 19414),
Gene: WilliamStrong_20 Start: 17840, Stop: 18136, Start Num: 1
Candidate Starts for WilliamStrong_20:
(Start: 1 @17840 has 17 MA's), (11, 17933), (13, 17951), (14, 17966), (17, 18005), (21, 18038),
Gene: Zeina_24 Start: 18489, Stop: 18800, Start Num: 1
Candidate Starts for Zeina_24:
(Start: 1 @18489 has 17 MA's), (22, 18741), (24, 18765), (25, 18780), (28, 18795),

