Pham 2992


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 2992 Report

This analysis was run 04/05/24 on database version 557.
Pham number 2992 has 31 members, 3 are drafts.
Phages represented in each track:

- Track 1 : Priscilla_77, DmpstrDiver_79, Zelink_76, Ejimix_78, Superphikiman_76, NihilNomen_79, Brocalys_72, Kalah $\overline{2} 73$, Lizziana_84, Hūghesyang_78, Squint_79, Cabrinians_79, Phoebus_81, Beem_78, MiaZeal_79, Dallas_77, Lucky2013_76, Odette_77, FreddyB 89, Crumble_76, ThreeRngTarjay_76, SwagPigglett_8 $\overline{3}$, Ariel_78, Redno2_75, Porcelain_78, BobaPhett_82, Schatzie_74
- Track 2 : Dove_̄̄6, LastJedi_711, Bombitas_68, Halley_80


## 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 25 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_78, Beem_78, BobaPhett_82, Brocalys_72, Cabrinians_79, Crumble_76,

Dallas_77, DmpstrDiver_79, Ejimix_78, FreddȳB_89, Hughesyang_78, Kalah2_73, Lizziana_84, Lucky2013_76, MiaZeal_79, NihilNomen_79, Odette_77, Phoebus_81, Porcelain_78, Priscilla_77, Redno2_75, Schatzie_74, Squint_79, Superphikiman_76, SwagPigḡlett_83, ThreeRngTarjay_76, Zelink_76,

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

- Bombitas_68, Dove_66, Halley_80, LastJedi_71,

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

## Summary by start number:

Start 1:

- Found in 31 of 31 ( $100.0 \%$ ) of genes in pham
- Manual Annotations of this start: 3 of 28
- Called $12.9 \%$ of time when present
- Phage (with cluster) where this start called: Bombitas_68 (J), Dove_66 (J),

Halley_80 (J), LastJedi_71 (F1),

Start 2:

- Found in 31 of 31 ( $100.0 \%$ ) of genes in pham
- Manual Annotations of this start: 25 of 28
- Called $87.1 \%$ of time when present
- Phage (with cluster) where this start called: Ariel_78 (J), Beem_78 (J),

BobaPhett_82 (F1), Brocalys 72 (F1), Cabrinians 79 (F1), Crumble 76 (F1),
Dallas_77 (J), DmpstrDiver_79 (J), Ejimix_78 (J), FreddyB_89 (F1), Hughesyang_78
(J), Kalah2_73 (J), Lizziana_84 (F1), Lucky2013_76 (J), MiaZeal_79 (J),

NihilNomen_79 (J), Odette_77 (J), Phoebus_81 (J), Porcelain_78(J), Priscilla_77
(F1), Rednō̄_75 (J), Schā̄zie_74 (J), Squint_79 (J), Superphīkiman_76 (J), SwagPigglett_83 (F1), ThreeRngTarjay_76 (J), Zelink_76 (J),

## Summary by clusters:

There are 2 clusters represented in this pham: F1, J,
Info for manual annotations of cluster F1:

- Start number 1 was manually annotated 1 time for cluster F1.
-Start number 2 was manually annotated 7 times for cluster F1.
Info for manual annotations of cluster J:
-Start number 1 was manually annotated 2 times for cluster J.
-Start number 2 was manually annotated 18 times for cluster J.


## Gene Information:

Gene: Ariel_78 Start: 48168, Stop: 48076, Start Num: 2
Candidate Starts for Ariel_78:
(Start: 1 @48171 has $3 \overline{M A} ' s)$, (Start: 2 @ 48168 has 25 MA's), ( 3,48099 ),
Gene: Beem_78 Start: 52445, Stop: 52353, Start Num: 2
Candidate Starts for Beem_78:
(Start: 1 @ 52448 has 3 MA's $)$, (Start: 2 @ 52445 has 25 MA's), ( 3,52376 ),
Gene: BobaPhett_82 Start: 51155, Stop: 51247, Start Num: 2
Candidate Starts for BobaPhett_82:
(Start: 1 @51152 has 3 MA's), (Start: 2 @51155 has 25 MA's), ( 3,51224 ),
Gene: Bombitas_68 Start: 49611, Stop: 49516, Start Num: 1
Candidate Starts for Bombitas_68:
(Start: 1 @49611 has 3 MA's), (Start: 2 @49608 has 25 MA's), ( 3,49539 ),
Gene: Brocalys_72 Start: 46635, Stop: 46727, Start Num: 2
Candidate Starts for Brocalys_72:
(Start: 1 @ 46632 has 3 MA's), (Start: 2 @ 46635 has 25 MA's), ( 3,46704 ),
Gene: Cabrinians_79 Start: 48555, Stop: 48647, Start Num: 2
Candidate Starts for Cabrinians_79:
(Start: 1 @ 48552 has 3 MA's), (Start: 2 @ 48555 has 25 MA's), ( 3,48624 ),
Gene: Crumble_76 Start: 45280, Stop: 45372, Start Num: 2

Candidate Starts for Crumble_76:
(Start: 1 @45277 has 3 MA's), (Start: 2 @ 45280 has 25 MA's), ( 3,45349 ),
Gene: Dallas_77 Start: 51366, Stop: 51274, Start Num: 2
Candidate Starts for Dallas_77:
(Start: 1 @ 51369 has 3 MA's), (Start: 2 @51366 has 25 MA's), (3, 51297),
Gene: DmpstrDiver_79 Start: 51792, Stop: 51700, Start Num: 2
Candidate Starts for DmpstrDiver_79:
(Start: 1 @ 51795 has 3 MA's), (Start: 2 @51792 has 25 MA's), (3, 51723),
Gene: Dove_66 Start: 47877, Stop: 47782, Start Num: 1
Candidate Starts for Dove_66:
(Start: 1 @ 47877 has 3 MA's), (Start: 2 @ 47874 has 25 MA's), ( 3,47805 ),
Gene: Ejimix_78 Start: 53234, Stop: 53142, Start Num: 2
Candidate Starts for Ejimix 78:
(Start: 1 @53237 has 3 MA's), (Start: 2 @53234 has 25 MA's), ( 3,53165 ),
Gene: FreddyB_89 Start: 50202, Stop: 50294, Start Num: 2
Candidate Starts for FreddyB_89:
(Start: 1 @ 50199 has 3 MA's), (Start: 2 @50202 has 25 MA's), (3, 50271),
Gene: Halley_80 Start: 52448, Stop: 52353, Start Num: 1
Candidate Starts for Halley_80:
(Start: 1 @52448 has 3 MA's), (Start: 2 @52445 has 25 MA's), (3, 52376),
Gene: Hughesyang_78 Start: 52403, Stop: 52311, Start Num: 2
Candidate Starts for Hughesyang_78:
(Start: 1 @52406 has 3 MA's), (Start: 2 @52403 has 25 MA's), (3, 52334),
Gene: Kalah2_73 Start: 51738, Stop: 51646, Start Num: 2
Candidate Starts for Kalah2_73:
(Start: 1 @51741 has 3 MA's), (Start: 2 @51738 has 25 MA's), ( 3,51669 ),
Gene: LastJedi_71 Start: 47026, Stop: 47121, Start Num: 1
Candidate Starts for LastJedi_71:
(Start: 1 @47026 has 3 MA's), (Start: 2 @47029 has 25 MA's), (3, 47098),
Gene: Lizziana_84 Start: 50278, Stop: 50370, Start Num: 2
Candidate Starts for Lizziana_84:
(Start: 1 @ 50275 has 3 MA's), (Start: 2 @ 50278 has 25 MA's), ( 3,50347 ),
Gene: Lucky2013_76 Start: 48184, Stop: 48092, Start Num: 2
Candidate Starts for Lucky2013_76:
(Start: 1 @ 48187 has 3 MA's), (Start: 2 @48184 has 25 MA's), ( 3,48115 ),
Gene: MiaZeal_79 Start: 48840, Stop: 48748, Start Num: 2
Candidate Starts for MiaZeal_79:
(Start: 1 @ 48843 has 3 MA's), (Start: 2 @ 48840 has 25 MA's), (3, 48771),
Gene: NihilNomen_79 Start: 52532, Stop: 52440, Start Num: 2
Candidate Starts for NihilNomen_79:
(Start: 1 @52535 has 3 MA's), (Start: 2 @52532 has 25 MA's), (3, 52463),
Gene: Odette_77 Start: 51574, Stop: 51482, Start Num: 2
Candidate Starts for Odette_77:
(Start: 1 @ 51577 has 3 MA's), (Start: 2 @ 51574 has 25 MA's), ( 3,51505 ),
Gene: Phoebus_81 Start: 53714, Stop: 53622, Start Num: 2
Candidate Starts for Phoebus_81:
(Start: 1 @53717 has 3 MA's), (Start: 2 @53714 has 25 MA's), (3, 53645),
Gene: Porcelain_78 Start: 48840, Stop: 48748, Start Num: 2
Candidate Starts for Porcelain_78:
(Start: 1 @48843 has 3 MA's), (Start: 2 @48840 has 25 MA's), (3, 48771),
Gene: Priscilla_77 Start: 48566, Stop: 48658, Start Num: 2
Candidate Starts for Priscilla_77:
(Start: 1 @ 48563 has 3 MA's), (Start: 2 @ 48566 has 25 MA's), ( 3,48635 ),
Gene: Redno2_75 Start: 49328, Stop: 49236, Start Num: 2
Candidate Starts for Redno2_75:
(Start: 1 @49331 has 3 MA's), (Start: 2 @49328 has 25 MA's), (3, 49259),
Gene: Schatzie_74 Start: 51321, Stop: 51229, Start Num: 2
Candidate Starts for Schatzie_74:
(Start: 1 @51324 has 3 MA's), (Start: 2 @51321 has 25 MA's), ( 3,51252 ),
Gene: Squint_79 Start: 48959, Stop: 48867, Start Num: 2
Candidate Starts for Squint_79:
(Start: 1 @ 48962 has 3 MA's), (Start: 2 @48959 has 25 MA's), ( 3,48890 ),
Gene: Superphikiman_76 Start: 48050, Stop: 47958, Start Num: 2
Candidate Starts for Superphikiman_76:
(Start: 1 @ 48053 has 3 MA's), (Start: 2 @48050 has 25 MA's), (3, 47981),
Gene: SwagPigglett_83 Start: 50785, Stop: 50877, Start Num: 2
Candidate Starts for SwagPigglett_83:
(Start: 1 @50782 has 3 MA's), (Start: 2 @50785 has 25 MA's), (3, 50854),
Gene: ThreeRngTarjay_76 Start: 52606, Stop: 52514, Start Num: 2
Candidate Starts for ThreeRngTarjay_76:
(Start: 1 @52609 has 3 MA's), (Start: 2 @52606 has 25 MA's), ( 3,52537 ),
Gene: Zelink_76 Start: 52918, Stop: 52826, Start Num: 2
Candidate Starts for Zelink_76:
(Start: 1 @52921 has 3 MA's), (Start: 2 @52918 has 25 MA's), (3, 52849),

