Pham 128082

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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 128082 Report

This analysis was run 04/05/24 on database version 557.
Pham number 128082 has 17 members, 1 are drafts.
Phages represented in each track:

- Track 1 : Inked_51
- Track 2 : Teacup_48
- Track 3 : Niktson_47, ElephantMan_47
- Track 4 : Synepsis_46
- Track 5 : DevitoJr_46
- Track 6 : Nightmare_49
- Track 7 : Gordon 45, CastorTray_50
- Track 8 : Darby_46, Trustiboi_47
- Track 9 : Phaby_49
- Track 10 : LilHuddy_49
- Track 11 : Ingrid_49, Loretta_49
- Track 12 : Makai_47, Truckee_45


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

The start number called the most often in the published annotations is 9 , it was called in 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CastorTray_50, Darby_46, DevitoJr_46, ElephantMan_47, Gordon_45, Ingrid_49, Inked_51, Lilīuddy_49, Loretta_49, Makai_47, Nightmāre_49, Niktsōn_47, Phaby_49, Synepsis_46, Teacup_48, Truckee_45, Trustibōi_47,

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

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

## Summary by start number:

Start 9:

- Found in 17 of 17 ( $100.0 \%$ ) of genes in pham
- Manual Annotations of this start: 16 of 16
- Called $100.0 \%$ of time when present
- Phage (with cluster) where this start called: CastorTray_50 (AU1), Darby_46 (AU1),

DevitoJr_46 (AU1), ElephantMan_47 (AU1), Gordon_45 (AU1), Ingrid_49 (AU3), Inked_51 (AU), LilHuddy_49 (AŪ̄), Loretta_49 (AU3), Makai_47 (AU5),
Nightm̄are_49 (AU1), Nik̄tson_47 (AU1), Phaby__49 (AU2), Sȳnepsis_46 (AU1), Teacup_4 $\overline{8}$ (AU1), Truckee_45 (AU5), Trustiboi_47 (AU1),

## Summary by clusters:

There are 5 clusters represented in this pham: AU1, AU5, AU3, AU2, AU,
Info for manual annotations of cluster AU:

- Start number 9 was manually annotated 1 time for cluster AU.

Info for manual annotations of cluster AU1:

- Start number 9 was manually annotated 10 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 9 was manually annotated 1 time for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 9 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU5:

- Start number 9 was manually annotated 2 times for cluster AU5.


## Gene Information:

Gene: CastorTray_50 Start: 35233, Stop: 35484, Start Num: 9
Candidate Starts for CastorTray_50:
(6, 35152), (Start: 9 @35233 has 16 MA's), ( 13,35302 ), ( 22,35434 ),
Gene: Darby_46 Start: 34407, Stop: 34658, Start Num: 9
Candidate Starts for Darby_46:
(6, 34323), (Start: 9 @34407 has 16 MA's), (22, 34608),
Gene: DevitoJr_46 Start: 34595, Stop: 34846, Start Num: 9
Candidate Starts for DevitoJr_46:
(Start: 9 @34595 has 16 MA's), (10, 34598), (22, 34796), (25, 34823),
Gene: ElephantMan_47 Start: 35085, Stop: 35336, Start Num: 9
Candidate Starts for ElephantMan_47:
(Start: 9 @35085 has 16 MA's), (15, 35187), (17, 35220), (20, 35235), (24, 35301),
Gene: Gordon_45 Start: 35224, Stop: 35475, Start Num: 9
Candidate Starts for Gordon_45:
( 6,35143 ), (Start: 9 @35224 has 16 MA's), (13, 35293), (22, 35425),
Gene: Ingrid_49 Start: 34434, Stop: 34679, Start Num: 9
Candidate Starts for Ingrid_49:
(Start: 9 @34434 has 16 MA's), (15, 34530), (16, 34539), (20, 34578),

Gene: Inked_51 Start: 35565, Stop: 35807, Start Num: 9
Candidate Starts for Inked_51:
(Start: 9 @35565 has 16 MA's), (14, 35637), (18, 35700), (20, 35709),
Gene: LillHuddy_49 Start: 34651, Stop: 34896, Start Num: 9
Candidate Starts for LilHuddy_49:
(Start: 9 @34651 has 16 MA's), ( 15,34747 ), ( 24,34861 ),
Gene: Loretta_49 Start: 34434, Stop: 34679, Start Num: 9
Candidate Starts for Loretta_49:
(Start: 9 @34434 has 16 MA's), (15, 34530), (16, 34539), (20, 34578),
Gene: Makai_47 Start: 34628, Stop: 34861, Start Num: 9
Candidate Starts for Makai_47:
(7, 34550), (Start: 9 @34628 has 16 MA's), (11, 34658), (12, 34673), (16, 34730), (19, 34757), (23, 34820),

Gene: Nightmare_49 Start: 35641, Stop: 35892, Start Num: 9
Candidate Starts for Nightmare_49:
(Start: 9 @35641 has 16 MA's), (14, 35719), (17, 35776), (21, 35827), (22, 35842),
Gene: Niktson_47 Start: 35085, Stop: 35336, Start Num: 9
Candidate Starts for Niktson_47:
(Start: 9 @35085 has 16 MA's), (15, 35187), (17, 35220), (20, 35235), (24, 35301),
Gene: Phaby_49 Start: 35195, Stop: 35422, Start Num: 9
Candidate Starts for Phaby_49:
( 3,35063 ), ( 4,35081 ), ( 5,35090 ), (8, 35147), (Start: 9 @35195 has 16 MA's), (20, 35327), (21, 35363),

Gene: Synepsis_46 Start: 34754, Stop: 35005, Start Num: 9
Candidate Starts for Synepsis_46:
(Start: 9 @34754 has 16 MA's), (14, 34832), (15, 34856), (20, 34904), (22, 34955), (24, 34970),
Gene: Teacup_48 Start: 35114, Stop: 35365, Start Num: 9
Candidate Starts for Teacup_48:
(1, 34964), (2, 34973), (Start: 9 @35114 has 16 MA's), (15, 35216), (20, 35264), (22, 35315), (24, 35330),

Gene: Truckee_45 Start: 34418, Stop: 34651, Start Num: 9 Candidate Starts for Truckee_45:
(7, 34340), (Start: 9 @34418 has 16 MA's), (11, 34448), (12, 34463), (16, 34520), (19, 34547), (23, 34610),

Gene: Trustiboi_47 Start: 34955, Stop: 35206, Start Num: 9
Candidate Starts for Trustiboi_47:
(6, 34871), (Start: 9 @34955 has 16 MA's), (22, 35156),

