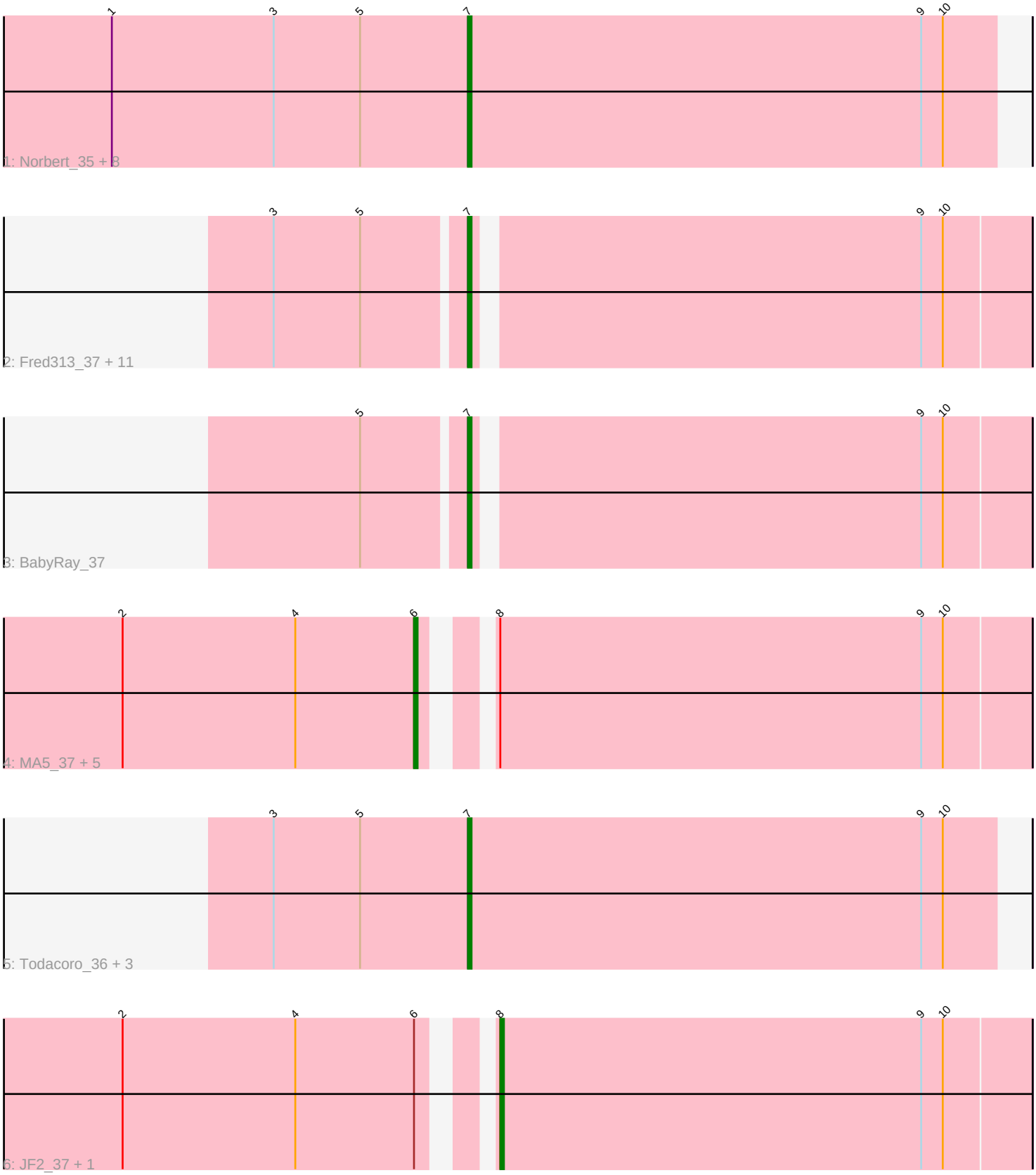
Pham 2742


1
3
5
7
9
10
1: Norbert_35 + 8
3
5
7
9
10
2: Fred313_37 + 11
5
7
9
10
3: BabyRay_37
2
4
6
8
9
10
4: MA5_37 + 5
3
5
7
9
10
5: Todacoro_36 + 3
2
4
6
8
9
10
6: JF2_37 + 1

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 2742 Report

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

Pham number 2742 has 34 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Norbert_35, Lambert1_36, Noella_36, ResDef_37, Texage_35, Popcicle_36, Caviar_36, Pocahontas_36, Hookmount_36
• Track 2 : Fred313_37, Pistachio_38, Giroux_37, Bugatti_37, Heathen_37, SaturnRing_37, Idleandcovert_37, TNguyen7_37, Puppy_38, Scout_37, BlueBird_38, HelDan_37
• Track 3 : BabyRay_37
• Track 4 : MA5_37, JF4_37, MK4_37, Isca_37, Phantastic_37, Rockstar_37
• Track 5 : Todacoro_36, QuinnKiro_35, Margo_36, Veracruz_35
• Track 6 : JF2_37, B1_35

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

The start number called the most often in the published annotations is 7, it was called in 22 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BabyRay_37, BlueBird_38, Bugatti_37, Caviar_36, Fred313_37, Giroux_37, Heathen_37, HelDan_37, Hookmount_36, Idleandcovert_37, Lambert1_36, Margo_36, Noella_36, Norbert_35, Pistachio_38, Pocahontas_36, Popcicle_36, Puppy_38, QuinnKiro_35, ResDef_37, SaturnRing_37, Scout_37, TNguyen7_37, Texage_35, Todacoro_36, Veracruz_35,

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

Genes that do not have the "Most Annotated" start:
• B1_35, Isca_37, JF2_37, JF4_37, MA5_37, MK4_37, Phantastic_37, Rockstar_37,

Summary by start number:

Start 6:
• Found in 8 of 34 (23.5%) of genes in pham
• Manual Annotations of this start: 6 of 30
• Called 75.0% of time when present

• Phage (with cluster) where this start called: Isca_37 (A3), JF4_37 (A3), MA5_37 (A3), MK4_37 (A3), Phantastic_37 (A3), Rockstar_37 (A3),

Start 7:
• Found in 26 of 34 (76.5%) of genes in pham
• Manual Annotations of this start: 22 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BabyRay_37 (A3), BlueBird_38 (A3), Bugatti_37 (A3), Caviar_36 (A3), Fred313_37 (A3), Giroux_37 (A3), Heathen_37 (A3), HelDan_37 (A3), Hookmount_36 (A3), Idleandcovert_37 (A3), Lambert1_36 (A3), Margo_36 (A3), Noella_36 (A3), Norbert_35 (A3), Pistachio_38 (A3), Pocahontas_36 (A3), Popcicle_36 (A3), Puppy_38 (A3), QuinnKiro_35 (A3), ResDef_37 (A3), SaturnRing_37 (A3), Scout_37 (A3), TNguyen7_37 (A3), Texage_35 (A3), Todacoro_36 (A3), Veracruz_35 (A3),

Start 8:
• Found in 8 of 34 (23.5%) of genes in pham
• Manual Annotations of this start: 2 of 30
• Called 25.0% of time when present
• Phage (with cluster) where this start called: B1_35 (A3), JF2_37 (A3),

Summary by clusters:

There is one cluster represented in this pham: A3

Info for manual annotations of cluster A3:
•Start number 6 was manually annotated 6 times for cluster A3.
•Start number 7 was manually annotated 22 times for cluster A3.
•Start number 8 was manually annotated 2 times for cluster A3.

Gene Information:

Gene: B1_35 Start: 27452, Stop: 27306, Start Num: 8
Candidate Starts for B1_35:
(2, 27545), (4, 27497), (Start: 6 @27464 has 6 MA's), (Start: 8 @27452 has 2 MA's), (9, 27335), (10, 27329),

Gene: BabyRay_37 Start: 28006, Stop: 27857, Start Num: 7
Candidate Starts for BabyRay_37:
(5, 28033), (Start: 7 @28006 has 22 MA's), (9, 27886), (10, 27880),

Gene: BlueBird_38 Start: 27935, Stop: 27786, Start Num: 7
Candidate Starts for BlueBird_38:
(3, 27986), (5, 27962), (Start: 7 @27935 has 22 MA's), (9, 27815), (10, 27809),

Gene: Bugatti_37 Start: 27935, Stop: 27786, Start Num: 7
Candidate Starts for Bugatti_37:
(3, 27986), (5, 27962), (Start: 7 @27935 has 22 MA's), (9, 27815), (10, 27809),

Gene: Caviar_36 Start: 27955, Stop: 27809, Start Num: 7
Candidate Starts for Caviar_36:

(1, 28054), (3, 28009), (5, 27985), (Start: 7 @27955 has 22 MA's), (9, 27829), (10, 27823),

Gene: Fred313_37 Start: 27687, Stop: 27538, Start Num: 7
Candidate Starts for Fred313_37:
(3, 27738), (5, 27714), (Start: 7 @27687 has 22 MA's), (9, 27567), (10, 27561),

Gene: Giroux_37 Start: 27934, Stop: 27785, Start Num: 7
Candidate Starts for Giroux_37:
(3, 27985), (5, 27961), (Start: 7 @27934 has 22 MA's), (9, 27814), (10, 27808),

Gene: Heathen_37 Start: 27743, Stop: 27594, Start Num: 7
Candidate Starts for Heathen_37:
(3, 27794), (5, 27770), (Start: 7 @27743 has 22 MA's), (9, 27623), (10, 27617),

Gene: HelDan_37 Start: 27995, Stop: 27846, Start Num: 7
Candidate Starts for HelDan_37:
(3, 28046), (5, 28022), (Start: 7 @27995 has 22 MA's), (9, 27875), (10, 27869),

Gene: Hookmount_36 Start: 27956, Stop: 27810, Start Num: 7
Candidate Starts for Hookmount_36:
(1, 28055), (3, 28010), (5, 27986), (Start: 7 @27956 has 22 MA's), (9, 27830), (10, 27824),

Gene: Idleandcovert_37 Start: 27935, Stop: 27786, Start Num: 7
Candidate Starts for Idleandcovert_37:
(3, 27986), (5, 27962), (Start: 7 @27935 has 22 MA's), (9, 27815), (10, 27809),

Gene: Isca_37 Start: 27713, Stop: 27555, Start Num: 6
Candidate Starts for Isca_37:
(2, 27794), (4, 27746), (Start: 6 @27713 has 6 MA's), (Start: 8 @27701 has 2 MA's), (9, 27584), (10, 27578),

Gene: JF2_37 Start: 27452, Stop: 27306, Start Num: 8
Candidate Starts for JF2_37:
(2, 27545), (4, 27497), (Start: 6 @27464 has 6 MA's), (Start: 8 @27452 has 2 MA's), (9, 27335), (10, 27329),

Gene: JF4_37 Start: 27464, Stop: 27306, Start Num: 6
Candidate Starts for JF4_37:
(2, 27545), (4, 27497), (Start: 6 @27464 has 6 MA's), (Start: 8 @27452 has 2 MA's), (9, 27335), (10, 27329),

Gene: Lambert1_36 Start: 27955, Stop: 27809, Start Num: 7
Candidate Starts for Lambert1_36:
(1, 28054), (3, 28009), (5, 27985), (Start: 7 @27955 has 22 MA's), (9, 27829), (10, 27823),

Gene: MA5_37 Start: 27596, Stop: 27438, Start Num: 6
Candidate Starts for MA5_37:
(2, 27677), (4, 27629), (Start: 6 @27596 has 6 MA's), (Start: 8 @27584 has 2 MA's), (9, 27467), (10, 27461),

Gene: MK4_37 Start: 27698, Stop: 27540, Start Num: 6
Candidate Starts for MK4_37:

(2, 27779), (4, 27731), (Start: 6 @27698 has 6 MA's), (Start: 8 @27686 has 2 MA's), (9, 27569), (10, 27563),

Gene: Margo_36 Start: 27981, Stop: 27835, Start Num: 7
Candidate Starts for Margo_36:
(3, 28035), (5, 28011), (Start: 7 @27981 has 22 MA's), (9, 27855), (10, 27849),

Gene: Noella_36 Start: 27956, Stop: 27810, Start Num: 7
Candidate Starts for Noella_36:
(1, 28055), (3, 28010), (5, 27986), (Start: 7 @27956 has 22 MA's), (9, 27830), (10, 27824),

Gene: Norbert_35 Start: 27955, Stop: 27809, Start Num: 7
Candidate Starts for Norbert_35:
(1, 28054), (3, 28009), (5, 27985), (Start: 7 @27955 has 22 MA's), (9, 27829), (10, 27823),

Gene: Phantastic_37 Start: 27729, Stop: 27571, Start Num: 6
Candidate Starts for Phantastic_37:
(2, 27810), (4, 27762), (Start: 6 @27729 has 6 MA's), (Start: 8 @27717 has 2 MA's), (9, 27600), (10, 27594),

Gene: Pistachio_38 Start: 27482, Stop: 27333, Start Num: 7
Candidate Starts for Pistachio_38:
(3, 27533), (5, 27509), (Start: 7 @27482 has 22 MA's), (9, 27362), (10, 27356),

Gene: Pocahontas_36 Start: 27952, Stop: 27806, Start Num: 7
Candidate Starts for Pocahontas_36:
(1, 28051), (3, 28006), (5, 27982), (Start: 7 @27952 has 22 MA's), (9, 27826), (10, 27820),

Gene: Popcicle_36 Start: 27952, Stop: 27806, Start Num: 7
Candidate Starts for Popcicle_36:
(1, 28051), (3, 28006), (5, 27982), (Start: 7 @27952 has 22 MA's), (9, 27826), (10, 27820),

Gene: Puppy_38 Start: 27552, Stop: 27403, Start Num: 7
Candidate Starts for Puppy_38:
(3, 27603), (5, 27579), (Start: 7 @27552 has 22 MA's), (9, 27432), (10, 27426),

Gene: QuinnKiro_35 Start: 27955, Stop: 27809, Start Num: 7
Candidate Starts for QuinnKiro_35:
(3, 28009), (5, 27985), (Start: 7 @27955 has 22 MA's), (9, 27829), (10, 27823),

Gene: ResDef_37 Start: 27955, Stop: 27809, Start Num: 7
Candidate Starts for ResDef_37:
(1, 28054), (3, 28009), (5, 27985), (Start: 7 @27955 has 22 MA's), (9, 27829), (10, 27823),

Gene: Rockstar_37 Start: 27705, Stop: 27547, Start Num: 6
Candidate Starts for Rockstar_37:
(2, 27786), (4, 27738), (Start: 6 @27705 has 6 MA's), (Start: 8 @27693 has 2 MA's), (9, 27576), (10, 27570),

Gene: SaturnRing_37 Start: 27935, Stop: 27786, Start Num: 7
Candidate Starts for SaturnRing_37:
(3, 27986), (5, 27962), (Start: 7 @27935 has 22 MA's), (9, 27815), (10, 27809),

Gene: Scout_37 Start: 27242, Stop: 27093, Start Num: 7
Candidate Starts for Scout_37:
(3, 27293), (5, 27269), (Start: 7 @27242 has 22 MA's), (9, 27122), (10, 27116),

Gene: TNguyen7_37 Start: 27899, Stop: 27750, Start Num: 7
Candidate Starts for TNguyen7_37:
(3, 27950), (5, 27926), (Start: 7 @27899 has 22 MA's), (9, 27779), (10, 27773),

Gene: Texage_35 Start: 27956, Stop: 27810, Start Num: 7
Candidate Starts for Texage_35:
(1, 28055), (3, 28010), (5, 27986), (Start: 7 @27956 has 22 MA's), (9, 27830), (10, 27824),

Gene: Todacoro_36 Start: 27955, Stop: 27809, Start Num: 7
Candidate Starts for Todacoro_36:
(3, 28009), (5, 27985), (Start: 7 @27955 has 22 MA's), (9, 27829), (10, 27823),

Gene: Veracruz_35 Start: 27955, Stop: 27809, Start Num: 7
Candidate Starts for Veracruz_35:
(3, 28009), (5, 27985), (Start: 7 @27955 has 22 MA's), (9, 27829), (10, 27823),