Pham 291417

1: Phantastic_43 + 4

2: Isca_42 + 1

3: SaturnRing_43 + 9

4: Chiqui_41 + 2

5: Scout_43 + 8

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 291417 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291417 has 29 members, 10 are drafts.

Phages represented in each track:
• Track 1 : Phantastic_43, MK4_43, B1_40, JF4_43, JF2_43
• Track 2 : Isca_42, Rockstar_43
• Track 3 : SaturnRing_43, Puppy_44, Bugatti_43, TNguyen7_43, BlueBird_44, BabyRay_43, Clammy_43, Idleandcovert_43, Giroux_44, Pistachio_44
• Track 4 : Chiqui_41, MA5_43, BabyJohn_41
• Track 5 : Scout_43, DropBear_43, HelDan_43, Kachowdy_43, Marchesa_43, Roimos_43, Zarafa_43, Heathen_43, Fred313_43

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 19 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• B1_40, BabyJohn_41, BabyRay_43, BlueBird_44, Bugatti_43, Chiqui_41, Clammy_43, DropBear_43, Fred313_43, Giroux_44, Heathen_43, HelDan_43, Idleandcovert_43, Isca_42, JF2_43, JF4_43, Kachowdy_43, MA5_43, MK4_43, Marchesa_43, Phantastic_43, Pistachio_44, Puppy_44, Rockstar_43, Roimos_43, SaturnRing_43, Scout_43, TNguyen7_43, Zarafa_43,

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 2:
• Found in 29 of 29 (100.0%) of genes in pham
• Manual Annotations of this start: 19 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: B1_40 (A3), BabyJohn_41 (A3), BabyRay_43 (A3), BlueBird_44 (A3), Bugatti_43 (A3), Chiqui_41 (A3), Clammy_43

(A3), DropBear_43 (A3), Fred313_43 (A3), Giroux_44 (A3), Heathen_43 (A3), HelDan_43 (A3), Idleandcovert_43 (A3), Isca_42 (A3), JF2_43 (A3), JF4_43 (A3), Kachowdy_43 (A3), MA5_43 (A3), MK4_43 (A3), Marchesa_43 (A3), Phantastic_43 (A3), Pistachio_44 (A3), Puppy_44 (A3), Rockstar_43 (A3), Roimos_43 (A3), SaturnRing_43 (A3), Scout_43 (A3), TNguyen7_43 (A3), Zarafa_43 (A3),

Summary by clusters:

There is one cluster represented in this pham: A3

Info for manual annotations of cluster A3:
•Start number 2 was manually annotated 19 times for cluster A3.

Gene Information:

Gene: B1_40 Start: 28679, Stop: 28518, Start Num: 2
Candidate Starts for B1_40:
(1, 28769), (Start: 2 @28679 has 19 MA's), (6, 28553),

Gene: BabyJohn_41 Start: 29470, Stop: 29309, Start Num: 2
Candidate Starts for BabyJohn_41:
(Start: 2 @29470 has 19 MA's), (3, 29446), (6, 29344),

Gene: BabyRay_43 Start: 29415, Stop: 29254, Start Num: 2
Candidate Starts for BabyRay_43:
(1, 29505), (Start: 2 @29415 has 19 MA's), (3, 29391), (6, 29289),

Gene: BlueBird_44 Start: 29325, Stop: 29164, Start Num: 2
Candidate Starts for BlueBird_44:
(1, 29415), (Start: 2 @29325 has 19 MA's), (3, 29301), (6, 29199),

Gene: Bugatti_43 Start: 29325, Stop: 29164, Start Num: 2
Candidate Starts for Bugatti_43:
(1, 29415), (Start: 2 @29325 has 19 MA's), (3, 29301), (6, 29199),

Gene: Chiqui_41 Start: 29479, Stop: 29318, Start Num: 2
Candidate Starts for Chiqui_41:
(Start: 2 @29479 has 19 MA's), (3, 29455), (6, 29353),

Gene: Clammy_43 Start: 29325, Stop: 29164, Start Num: 2
Candidate Starts for Clammy_43:
(1, 29415), (Start: 2 @29325 has 19 MA's), (3, 29301), (6, 29199),

Gene: DropBear_43 Start: 29392, Stop: 29231, Start Num: 2
Candidate Starts for DropBear_43:
(1, 29482), (Start: 2 @29392 has 19 MA's), (3, 29368), (4, 29347), (6, 29266),

Gene: Fred313_43 Start: 29077, Stop: 28916, Start Num: 2
Candidate Starts for Fred313_43:
(1, 29167), (Start: 2 @29077 has 19 MA's), (3, 29053), (4, 29032), (6, 28951),

Gene: Giroux_44 Start: 29324, Stop: 29163, Start Num: 2
Candidate Starts for Giroux_44:
(1, 29414), (Start: 2 @29324 has 19 MA's), (3, 29300), (6, 29198),

Gene: Heathen_43 Start: 29133, Stop: 28972, Start Num: 2
Candidate Starts for Heathen_43:
(1, 29223), (Start: 2 @29133 has 19 MA's), (3, 29109), (4, 29088), (6, 29007),

Gene: HelDan_43 Start: 29385, Stop: 29224, Start Num: 2
Candidate Starts for HelDan_43:
(1, 29475), (Start: 2 @29385 has 19 MA's), (3, 29361), (4, 29340), (6, 29259),

Gene: Idleandcovert_43 Start: 29325, Stop: 29164, Start Num: 2
Candidate Starts for Idleandcovert_43:
(1, 29415), (Start: 2 @29325 has 19 MA's), (3, 29301), (6, 29199),

Gene: Isca_42 Start: 28928, Stop: 28767, Start Num: 2
Candidate Starts for Isca_42:
(1, 29018), (Start: 2 @28928 has 19 MA's), (5, 28826), (6, 28802),

Gene: JF2_43 Start: 28679, Stop: 28518, Start Num: 2
Candidate Starts for JF2_43:
(1, 28769), (Start: 2 @28679 has 19 MA's), (6, 28553),

Gene: JF4_43 Start: 28679, Stop: 28518, Start Num: 2
Candidate Starts for JF4_43:
(1, 28769), (Start: 2 @28679 has 19 MA's), (6, 28553),

Gene: Kachowdy_43 Start: 29385, Stop: 29224, Start Num: 2
Candidate Starts for Kachowdy_43:
(1, 29475), (Start: 2 @29385 has 19 MA's), (3, 29361), (4, 29340), (6, 29259),

Gene: MA5_43 Start: 28829, Stop: 28668, Start Num: 2
Candidate Starts for MA5_43:
(Start: 2 @28829 has 19 MA's), (3, 28805), (6, 28703),

Gene: MK4_43 Start: 28913, Stop: 28752, Start Num: 2
Candidate Starts for MK4_43:
(1, 29003), (Start: 2 @28913 has 19 MA's), (6, 28787),

Gene: Marchesa_43 Start: 29383, Stop: 29222, Start Num: 2
Candidate Starts for Marchesa_43:
(1, 29473), (Start: 2 @29383 has 19 MA's), (3, 29359), (4, 29338), (6, 29257),

Gene: Phantastic_43 Start: 28944, Stop: 28783, Start Num: 2
Candidate Starts for Phantastic_43:
(1, 29034), (Start: 2 @28944 has 19 MA's), (6, 28818),

Gene: Pistachio_44 Start: 28872, Stop: 28711, Start Num: 2
Candidate Starts for Pistachio_44:
(1, 28962), (Start: 2 @28872 has 19 MA's), (3, 28848), (6, 28746),

Gene: Puppy_44 Start: 28945, Stop: 28784, Start Num: 2

Candidate Starts for Puppy_44:
(1, 29035), (Start: 2 @28945 has 19 MA's), (3, 28921), (6, 28819),

Gene: Rockstar_43 Start: 28920, Stop: 28759, Start Num: 2
Candidate Starts for Rockstar_43:
(1, 29010), (Start: 2 @28920 has 19 MA's), (5, 28818), (6, 28794),

Gene: Roimos_43 Start: 29301, Stop: 29140, Start Num: 2
Candidate Starts for Roimos_43:
(1, 29391), (Start: 2 @29301 has 19 MA's), (3, 29277), (4, 29256), (6, 29175),

Gene: SaturnRing_43 Start: 29325, Stop: 29164, Start Num: 2
Candidate Starts for SaturnRing_43:
(1, 29415), (Start: 2 @29325 has 19 MA's), (3, 29301), (6, 29199),

Gene: Scout_43 Start: 28632, Stop: 28471, Start Num: 2
Candidate Starts for Scout_43:
(1, 28722), (Start: 2 @28632 has 19 MA's), (3, 28608), (4, 28587), (6, 28506),

Gene: TNguyen7_43 Start: 29292, Stop: 29131, Start Num: 2
Candidate Starts for TNguyen7_43:
(1, 29382), (Start: 2 @29292 has 19 MA's), (3, 29268), (6, 29166),

Gene: Zarafa_43 Start: 29394, Stop: 29233, Start Num: 2
Candidate Starts for Zarafa_43:
(1, 29484), (Start: 2 @29394 has 19 MA's), (3, 29370), (4, 29349), (6, 29268),