Pham 297026

9
1: Nikan_61
8 10 11 12 13 18
2: Kabreeze_62 + 2
8 10 11 12 13 18
3: Chocolat_62 + 5
8 10 11 13 16
4: KBurrousTX_62
7 13 14
5: Mendel_27
7 13
6: Tillums_32
7 13
7: Goodgraces_27
1 2 3 5 6 7 13 14 17
8: Seldom_30
4 6 7 13
9: Swim_29
7 13 15
10: Anjali_26

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 297026 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297026 has 17 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Nikan_61
• Track 2 : Kabreeze_62, HumptyDumpty_62, Linus_62
• Track 3 : Chocolat_62, Colucci_64, RosiePosie_61, Chubster_63, MoyaNatalis_62, JayCookie_63
• Track 4 : KBurrousTX_62
• Track 5 : Mendel_27
• Track 6 : Tillums_32
• Track 7 : Goodgraces_27
• Track 8 : Seldom_30
• Track 9 : Swim_29
• Track 10 : Anjali_26

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 6 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Anjali_26, Goodgraces_27, Mendel_27, Seldom_30, Swim_29, Tillums_32,

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

Genes that do not have the "Most Annotated" start:
• Chocolat_62, Chubster_63, Colucci_64, HumptyDumpty_62, JayCookie_63, KBurrousTX_62, Kabreeze_62, Linus_62, MoyaNatalis_62, Nikan_61, RosiePosie_61,

Summary by start number:

Start 7:
• Found in 6 of 17 (35.3%) of genes in pham
• Manual Annotations of this start: 6 of 15
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Anjali_26 (FD), Goodgraces_27 (FD), Mendel_27 (FD), Seldom_30 (FD), Swim_29 (FD), Tillums_32 (FD),

Start 8:
• Found in 10 of 17 (58.8%) of genes in pham
• Manual Annotations of this start: 5 of 15
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Chocolat_62 (AR), Chubster_63 (AR), Colucci_64 (AR), JayCookie_63 (AR), MoyaNatalis_62 (AR), RosiePosie_61 (AR),

Start 9:
• Found in 1 of 17 (5.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nikan_61 (AP2),

Start 10:
• Found in 10 of 17 (58.8%) of genes in pham
• Manual Annotations of this start: 4 of 15
• Called 40.0% of time when present
• Phage (with cluster) where this start called: HumptyDumpty_62 (AR), KBurrousTX_62 (AR), Kabreeze_62 (AR), Linus_62 (AR),

Summary by clusters:

There are 3 clusters represented in this pham: AP2, AR, FD,

Info for manual annotations of cluster AR:
•Start number 8 was manually annotated 5 times for cluster AR.
•Start number 10 was manually annotated 4 times for cluster AR.

Info for manual annotations of cluster FD:
•Start number 7 was manually annotated 6 times for cluster FD.

Gene Information:

Gene: Anjali_26 Start: 19029, Stop: 19199, Start Num: 7
Candidate Starts for Anjali_26:
(Start: 7 @19029 has 6 MA's), (13, 19125), (15, 19167),

Gene: Chocolat_62 Start: 44717, Stop: 44875, Start Num: 8
Candidate Starts for Chocolat_62:
(Start: 8 @44717 has 5 MA's), (Start: 10 @44726 has 4 MA's), (11, 44777), (12, 44789), (13, 44798), (18, 44867),

Gene: Chubster_63 Start: 44869, Stop: 45027, Start Num: 8
Candidate Starts for Chubster_63:
(Start: 8 @44869 has 5 MA's), (Start: 10 @44878 has 4 MA's), (11, 44929), (12, 44941), (13, 44950), (18, 45019),

Gene: Colucci_64 Start: 44773, Stop: 44931, Start Num: 8
Candidate Starts for Colucci_64:
(Start: 8 @44773 has 5 MA's), (Start: 10 @44782 has 4 MA's), (11, 44833), (12, 44845), (13, 44854), (18, 44923),

Gene: Goodgraces_27 Start: 19369, Stop: 19539, Start Num: 7
Candidate Starts for Goodgraces_27:
(Start: 7 @19369 has 6 MA's), (13, 19465),

Gene: HumptyDumpty_62 Start: 44665, Stop: 44814, Start Num: 10
Candidate Starts for HumptyDumpty_62:
(Start: 8 @44656 has 5 MA's), (Start: 10 @44665 has 4 MA's), (11, 44716), (12, 44728), (13, 44737), (18, 44806),

Gene: JayCookie_63 Start: 45128, Stop: 45286, Start Num: 8
Candidate Starts for JayCookie_63:
(Start: 8 @45128 has 5 MA's), (Start: 10 @45137 has 4 MA's), (11, 45188), (12, 45200), (13, 45209), (18, 45278),

Gene: KBurrousTX_62 Start: 46014, Stop: 46151, Start Num: 10
Candidate Starts for KBurrousTX_62:
(Start: 8 @46005 has 5 MA's), (Start: 10 @46014 has 4 MA's), (11, 46065), (13, 46086), (16, 46137),

Gene: Kabreeze_62 Start: 44744, Stop: 44893, Start Num: 10
Candidate Starts for Kabreeze_62:
(Start: 8 @44735 has 5 MA's), (Start: 10 @44744 has 4 MA's), (11, 44795), (12, 44807), (13, 44816), (18, 44885),

Gene: Linus_62 Start: 44867, Stop: 45016, Start Num: 10
Candidate Starts for Linus_62:
(Start: 8 @44858 has 5 MA's), (Start: 10 @44867 has 4 MA's), (11, 44918), (12, 44930), (13, 44939), (18, 45008),

Gene: Mendel_27 Start: 18777, Stop: 18947, Start Num: 7
Candidate Starts for Mendel_27:
(Start: 7 @18777 has 6 MA's), (13, 18873), (14, 18885),

Gene: MoyaNatalis_62 Start: 44704, Stop: 44862, Start Num: 8
Candidate Starts for MoyaNatalis_62:
(Start: 8 @44704 has 5 MA's), (Start: 10 @44713 has 4 MA's), (11, 44764), (12, 44776), (13, 44785), (18, 44854),

Gene: Nikan_61 Start: 41306, Stop: 41169, Start Num: 9
Candidate Starts for Nikan_61:
(9, 41306),

Gene: RosiePosie_61 Start: 44394, Stop: 44552, Start Num: 8
Candidate Starts for RosiePosie_61:
(Start: 8 @44394 has 5 MA's), (Start: 10 @44403 has 4 MA's), (11, 44454), (12, 44466), (13, 44475), (18, 44544),

Gene: Seldom_30 Start: 19394, Stop: 19564, Start Num: 7
Candidate Starts for Seldom_30:

(1, 19157), (2, 19175), (3, 19199), (5, 19226), (6, 19385), (Start: 7 @19394 has 6 MA's), (13, 19490), (14, 19502), (17, 19559),

Gene: Swim_29 Start: 19312, Stop: 19482, Start Num: 7
Candidate Starts for Swim_29:
(4, 19138), (6, 19303), (Start: 7 @19312 has 6 MA's), (13, 19408),

Gene: Tillums_32 Start: 19724, Stop: 19894, Start Num: 7
Candidate Starts for Tillums_32:
(Start: 7 @19724 has 6 MA's), (13, 19820),