Pham 5375

1 5 6 7 8 9 10 11 12 13
1: Wheeler_82 + 2
1 5 6 7 8 9 10 11 12 13
2: Buttons_74 + 1
2 3 5 6 7 8 9 10 11 12 13
3: Gompeii16_88 + 6
1 6 7 8 9 10 11 12 13
4: Emmina_42
1 6 7 8 9 10 11 12 13
5: Porky_40
2 3 5 6 7 8 9 10 11 12 13
6: LunaBlu_44
4 6 7 8 9 10 11 12 13
7: Marker_86

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 5375 Report

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

Pham number 5375 has 16 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Wheeler_82, Hermia_72, Homines_65
• Track 2 : Buttons_74, QTRlifeCrisis_77
• Track 3 : Gompeii16_88, Batiatus_40, Agaliana_85, Bircsak_88, Akhila_34, Melissauren88_40, MilanaBonita_34
• Track 4 : Emmina_42
• Track 5 : Porky_40
• Track 6 : LunaBlu_44
• Track 7 : Marker_86

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 8 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Agaliana_85, Akhila_34, Batiatus_40, Bircsak_88, Buttons_74, Gompeii16_88, Marker_86, Melissauren88_40, MilanaBonita_34, Porky_40, QTRlifeCrisis_77,

Genes that have the "Most Annotated" start but do not call it:
• Emmina_42, Hermia_72, Homines_65, LunaBlu_44, Wheeler_82,

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

Summary by start number:

Start 6:
• Found in 16 of 16 (100.0%) of genes in pham
• Manual Annotations of this start: 5 of 13
• Called 31.2% of time when present
• Phage (with cluster) where this start called: Emmina_42 (E), Hermia_72 (A1), Homines_65 (A1), LunaBlu_44 (F1), Wheeler_82 (A1),

Start 7:

• Found in 16 of 16 (100.0%) of genes in pham
• Manual Annotations of this start: 8 of 13
• Called 68.8% of time when present
• Phage (with cluster) where this start called: Agaliana_85 (A1), Akhila_34 (F1), Batiatus_40 (F1), Bircsak_88 (A1), Buttons_74 (A1), Gompeii16_88 (A1), Marker_86 (F1), Melissauren88_40 (F1), MilanaBonita_34 (F1), Porky_40 (E), QTRlifeCrisis_77 (A1),

Summary by clusters:

There are 3 clusters represented in this pham: A1, F1, E,

Info for manual annotations of cluster A1:
•Start number 6 was manually annotated 3 times for cluster A1.
•Start number 7 was manually annotated 3 times for cluster A1.

Info for manual annotations of cluster E:
•Start number 6 was manually annotated 1 time for cluster E.
•Start number 7 was manually annotated 1 time for cluster E.

Info for manual annotations of cluster F1:
•Start number 6 was manually annotated 1 time for cluster F1.
•Start number 7 was manually annotated 4 times for cluster F1.

Gene Information:

Gene: Agaliana_85 Start: 48641, Stop: 48510, Start Num: 7
Candidate Starts for Agaliana_85:
(2, 48701), (3, 48698), (5, 48674), (Start: 6 @48665 has 5 MA's), (Start: 7 @48641 has 8 MA's), (8, 48629), (9, 48596), (10, 48587), (11, 48548), (12, 48527), (13, 48524),

Gene: Akhila_34 Start: 27564, Stop: 27433, Start Num: 7
Candidate Starts for Akhila_34:
(2, 27624), (3, 27621), (5, 27597), (Start: 6 @27588 has 5 MA's), (Start: 7 @27564 has 8 MA's), (8, 27552), (9, 27519), (10, 27510), (11, 27471), (12, 27450), (13, 27447),

Gene: Batiatus_40 Start: 31542, Stop: 31411, Start Num: 7
Candidate Starts for Batiatus_40:
(2, 31602), (3, 31599), (5, 31575), (Start: 6 @31566 has 5 MA's), (Start: 7 @31542 has 8 MA's), (8, 31530), (9, 31497), (10, 31488), (11, 31449), (12, 31428), (13, 31425),

Gene: Bircsak_88 Start: 52169, Stop: 52038, Start Num: 7
Candidate Starts for Bircsak_88:
(2, 52229), (3, 52226), (5, 52202), (Start: 6 @52193 has 5 MA's), (Start: 7 @52169 has 8 MA's), (8, 52157), (9, 52124), (10, 52115), (11, 52076), (12, 52055), (13, 52052),

Gene: Buttons_74 Start: 45363, Stop: 45232, Start Num: 7
Candidate Starts for Buttons_74:
(1, 45456), (5, 45396), (Start: 6 @45387 has 5 MA's), (Start: 7 @45363 has 8 MA's), (8, 45351), (9, 45318), (10, 45309), (11, 45270), (12, 45249), (13, 45246),

Gene: Emmina_42 Start: 34334, Stop: 34179, Start Num: 6
Candidate Starts for Emmina_42:
(1, 34403), (Start: 6 @34334 has 5 MA's), (Start: 7 @34310 has 8 MA's), (8, 34298), (9, 34265), (10, 34256), (11, 34217), (12, 34196), (13, 34193),

Gene: Gompeii16_88 Start: 52170, Stop: 52039, Start Num: 7
Candidate Starts for Gompeii16_88:
(2, 52230), (3, 52227), (5, 52203), (Start: 6 @52194 has 5 MA's), (Start: 7 @52170 has 8 MA's), (8, 52158), (9, 52125), (10, 52116), (11, 52077), (12, 52056), (13, 52053),

Gene: Hermia_72 Start: 45712, Stop: 45557, Start Num: 6
Candidate Starts for Hermia_72:
(1, 45781), (5, 45721), (Start: 6 @45712 has 5 MA's), (Start: 7 @45688 has 8 MA's), (8, 45676), (9, 45643), (10, 45634), (11, 45595), (12, 45574), (13, 45571),

Gene: Homines_65 Start: 42042, Stop: 41887, Start Num: 6
Candidate Starts for Homines_65:
(1, 42111), (5, 42051), (Start: 6 @42042 has 5 MA's), (Start: 7 @42018 has 8 MA's), (8, 42006), (9, 41973), (10, 41964), (11, 41925), (12, 41904), (13, 41901),

Gene: LunaBlu_44 Start: 32598, Stop: 32443, Start Num: 6
Candidate Starts for LunaBlu_44:
(2, 32634), (3, 32631), (5, 32607), (Start: 6 @32598 has 5 MA's), (Start: 7 @32574 has 8 MA's), (8, 32562), (9, 32529), (10, 32520), (11, 32481), (12, 32460), (13, 32457),

Gene: Marker_86 Start: 47700, Stop: 47831, Start Num: 7
Candidate Starts for Marker_86:
(4, 47664), (Start: 6 @47676 has 5 MA's), (Start: 7 @47700 has 8 MA's), (8, 47712), (9, 47745), (10, 47754), (11, 47793), (12, 47814), (13, 47817),

Gene: Melissauren88_40 Start: 31701, Stop: 31570, Start Num: 7
Candidate Starts for Melissauren88_40:
(2, 31761), (3, 31758), (5, 31734), (Start: 6 @31725 has 5 MA's), (Start: 7 @31701 has 8 MA's), (8, 31689), (9, 31656), (10, 31647), (11, 31608), (12, 31587), (13, 31584),

Gene: MilanaBonita_34 Start: 27564, Stop: 27433, Start Num: 7
Candidate Starts for MilanaBonita_34:
(2, 27624), (3, 27621), (5, 27597), (Start: 6 @27588 has 5 MA's), (Start: 7 @27564 has 8 MA's), (8, 27552), (9, 27519), (10, 27510), (11, 27471), (12, 27450), (13, 27447),

Gene: Porky_40 Start: 34319, Stop: 34188, Start Num: 7
Candidate Starts for Porky_40:
(1, 34412), (Start: 6 @34343 has 5 MA's), (Start: 7 @34319 has 8 MA's), (8, 34307), (9, 34274), (10, 34265), (11, 34226), (12, 34205), (13, 34202),

Gene: QTRlifeCrisis_77 Start: 46598, Stop: 46467, Start Num: 7
Candidate Starts for QTRlifeCrisis_77:
(1, 46691), (5, 46631), (Start: 6 @46622 has 5 MA's), (Start: 7 @46598 has 8 MA's), (8, 46586), (9, 46553), (10, 46544), (11, 46505), (12, 46484), (13, 46481),

Gene: Wheeler_82 Start: 49249, Stop: 49094, Start Num: 6
Candidate Starts for Wheeler_82:

(1, 49318), (5, 49258), (Start: 6 @49249 has 5 MA's), (Start: 7 @49225 has 8 MA's), (8, 49213), (9, 49180), (10, 49171), (11, 49132), (12, 49111), (13, 49108),