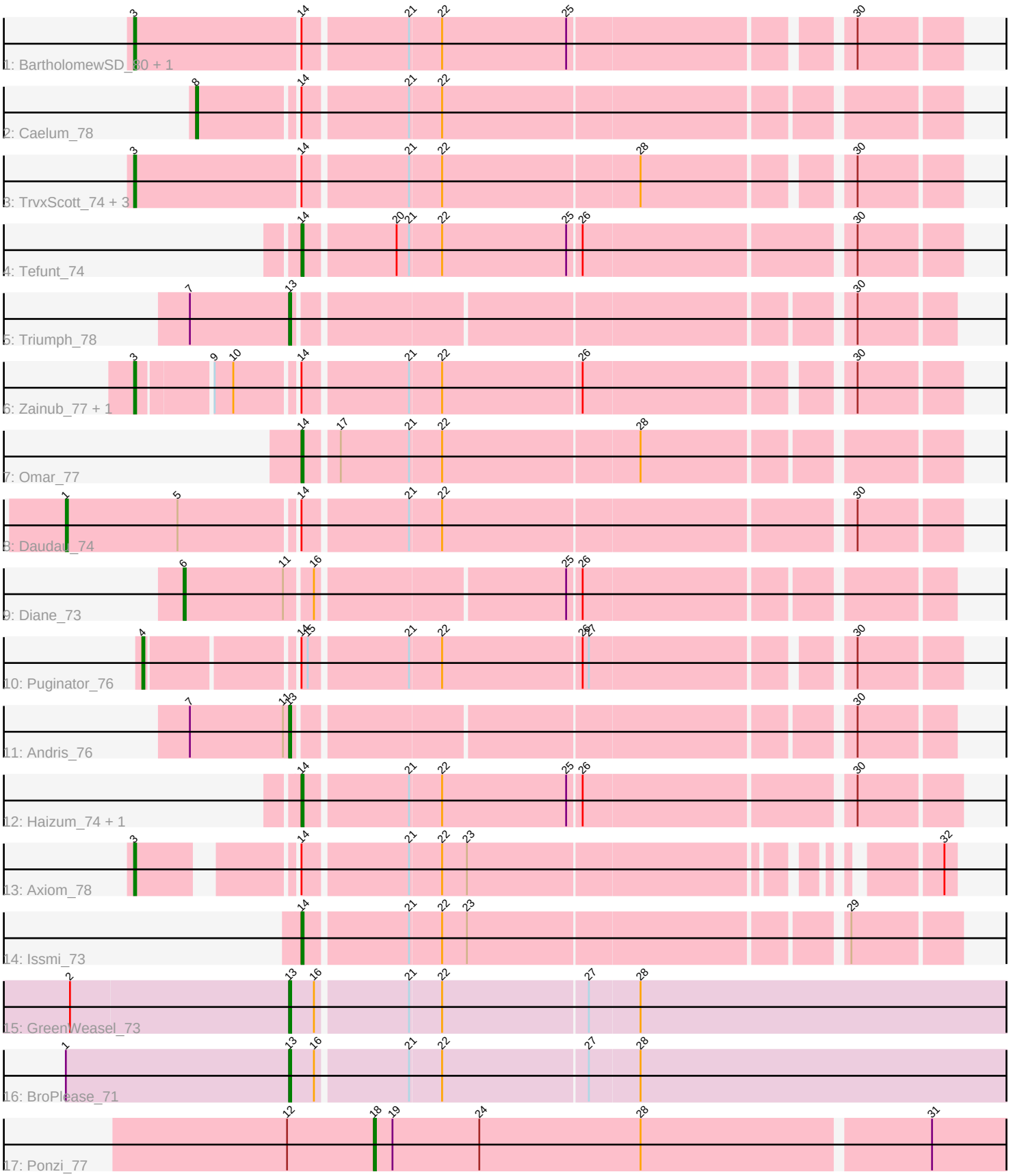
Pham 348006


1: BartholomewSD_80 + 1
2: Caelum_78
3: TrvxScott_74 + 3
4: Tefunt_74
5: Triumph_78
6: Zainub_77 + 1
7: Omar_77
8: Daudau_74
9: Diane_73
10: Puginator_76
11: Andris_76
12: Haizum_74 + 1
13: Axiom_78
14: Issmi_73
15: GreenWeasel_73
16: BroPlease_71
17: Ponzi_77

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 348006 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348006 has 23 members, 0 are drafts.

Phages represented in each track:
• Track 1 : BartholomewSD_80, Alvy_80
• Track 2 : Caelum_78
• Track 3 : TrvxScott_74, TinaBelcher_75, Thestral_77, Bowden_75
• Track 4 : Tefunt_74
• Track 5 : Triumph_78
• Track 6 : Zainub_77, Paolo_76
• Track 7 : Omar_77
• Track 8 : Daudau_74
• Track 9 : Diane_73
• Track 10 : Puginator_76
• Track 11 : Andris_76
• Track 12 : Haizum_74, Nishikigoi_75
• Track 13 : Axiom_78
• Track 14 : Issmi_73
• Track 15 : GreenWeasel_73
• Track 16 : BroPlease_71
• Track 17 : Ponzi_77

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

The start number called the most often in the published annotations is 3, it was called in 9 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alvy_80, Axiom_78, BartholomewSD_80, Bowden_75, Paolo_76, Thestral_77, TinaBelcher_75, TrvxScott_74, Zainub_77,

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

Genes that do not have the "Most Annotated" start:
• Andris_76, BroPlease_71, Caelum_78, Daudau_74, Diane_73, GreenWeasel_73, Haizum_74, Issmi_73, Nishikigoi_75, Omar_77, Ponzi_77, Puginator_76, Tefunt_74, Triumph_78,

Summary by start number:

Start 1:
• Found in 2 of 23 (8.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Daudau_74 (BD2),

Start 3:
• Found in 9 of 23 (39.1%) of genes in pham
• Manual Annotations of this start: 9 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alvy_80 (BD2), Axiom_78 (BD2), BartholomewSD_80 (BD2), Bowden_75 (BD2), Paolo_76 (BD2), Thestral_77 (BD2), TinaBelcher_75 (BD2), TrvxScott_74 (BD2), Zainub_77 (BD2),

Start 4:
• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Puginator_76 (BD2),

Start 6:
• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Diane_73 (BD2),

Start 8:
• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Caelum_78 (BD2),

Start 13:
• Found in 4 of 23 (17.4%) of genes in pham
• Manual Annotations of this start: 4 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Andris_76 (BD2), BroPlease_71 (BD4), GreenWeasel_73 (BD4), Triumph_78 (BD2),

Start 14:
• Found in 17 of 23 (73.9%) of genes in pham
• Manual Annotations of this start: 5 of 23
• Called 29.4% of time when present
• Phage (with cluster) where this start called: Haizum_74 (BD2), Issmi_73 (BD2), Nishikigoi_75 (BD2), Omar_77 (BD2), Tefunt_74 (BD2),

Start 18:
• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Ponzi_77 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: BD4, singleton, BD2,

Info for manual annotations of cluster BD2:
•Start number 1 was manually annotated 1 time for cluster BD2.
•Start number 3 was manually annotated 9 times for cluster BD2.
•Start number 4 was manually annotated 1 time for cluster BD2.
•Start number 6 was manually annotated 1 time for cluster BD2.
•Start number 8 was manually annotated 1 time for cluster BD2.
•Start number 13 was manually annotated 2 times for cluster BD2.
•Start number 14 was manually annotated 5 times for cluster BD2.

Info for manual annotations of cluster BD4:
•Start number 13 was manually annotated 2 times for cluster BD4.

Gene Information:

Gene: Alvy_80 Start: 48999, Stop: 48628, Start Num: 3
Candidate Starts for Alvy_80:
(Start: 3 @48999 has 9 MA's), (Start: 14 @48921 has 5 MA's), (21, 48873), (22, 48858), (25, 48798), (30, 48675),

Gene: Andris_76 Start: 46916, Stop: 46623, Start Num: 13
Candidate Starts for Andris_76:
(7, 46964), (11, 46919), (Start: 13 @46916 has 4 MA's), (30, 46667),

Gene: Axiom_78 Start: 47980, Stop: 47642, Start Num: 3
Candidate Starts for Axiom_78:
(Start: 3 @47980 has 9 MA's), (Start: 14 @47917 has 5 MA's), (21, 47869), (22, 47854), (23, 47842), (32, 47647),

Gene: BartholomewSD_80 Start: 48118, Stop: 47747, Start Num: 3
Candidate Starts for BartholomewSD_80:
(Start: 3 @48118 has 9 MA's), (Start: 14 @48040 has 5 MA's), (21, 47992), (22, 47977), (25, 47917), (30, 47794),

Gene: Bowden_75 Start: 48692, Stop: 48321, Start Num: 3
Candidate Starts for Bowden_75:
(Start: 3 @48692 has 9 MA's), (Start: 14 @48614 has 5 MA's), (21, 48566), (22, 48551), (28, 48458), (30, 48368),

Gene: BroPlease_71 Start: 46117, Stop: 45767, Start Num: 13
Candidate Starts for BroPlease_71:
(Start: 1 @46225 has 1 MA's), (Start: 13 @46117 has 4 MA's), (16, 46105), (21, 46063), (22, 46048), (27, 45979), (28, 45955),

Gene: Caelum_78 Start: 47002, Stop: 46661, Start Num: 8
Candidate Starts for Caelum_78:

(Start: 8 @47002 has 1 MA's), (Start: 14 @46957 has 5 MA's), (21, 46909), (22, 46894),

Gene: Daudau_74 Start: 46498, Stop: 46091, Start Num: 1
Candidate Starts for Daudau_74:
(Start: 1 @46498 has 1 MA's), (5, 46444), (Start: 14 @46390 has 5 MA's), (21, 46342), (22, 46327), (30, 46138),

Gene: Diane_73 Start: 46788, Stop: 46444, Start Num: 6
Candidate Starts for Diane_73:
(Start: 6 @46788 has 1 MA's), (11, 46740), (16, 46728), (25, 46614), (26, 46608),

Gene: GreenWeasel_73 Start: 46118, Stop: 45768, Start Num: 13
Candidate Starts for GreenWeasel_73:
(2, 46223), (Start: 13 @46118 has 4 MA's), (16, 46106), (21, 46064), (22, 46049), (27, 45980), (28, 45956),

Gene: Haizum_74 Start: 46973, Stop: 46674, Start Num: 14
Candidate Starts for Haizum_74:
(Start: 14 @46973 has 5 MA's), (21, 46925), (22, 46910), (25, 46850), (26, 46844), (30, 46721),

Gene: Issmi_73 Start: 46671, Stop: 46375, Start Num: 14
Candidate Starts for Issmi_73:
(Start: 14 @46671 has 5 MA's), (21, 46623), (22, 46608), (23, 46596), (29, 46425),

Gene: Nishikigoi_75 Start: 46973, Stop: 46674, Start Num: 14
Candidate Starts for Nishikigoi_75:
(Start: 14 @46973 has 5 MA's), (21, 46925), (22, 46910), (25, 46850), (26, 46844), (30, 46721),

Gene: Omar_77 Start: 45438, Stop: 45142, Start Num: 14
Candidate Starts for Omar_77:
(Start: 14 @45438 has 5 MA's), (17, 45423), (21, 45390), (22, 45375), (28, 45282),

Gene: Paolo_76 Start: 47215, Stop: 46853, Start Num: 3
Candidate Starts for Paolo_76:
(Start: 3 @47215 has 9 MA's), (9, 47182), (10, 47173), (Start: 14 @47146 has 5 MA's), (21, 47098), (22, 47083), (26, 47017), (30, 46900),

Gene: Ponzi_77 Start: 51409, Stop: 51107, Start Num: 18
Candidate Starts for Ponzi_77:
(12, 51451), (Start: 18 @51409 has 1 MA's), (19, 51400), (24, 51358), (28, 51280), (31, 51145),

Gene: Puginator_76 Start: 47286, Stop: 46927, Start Num: 4
Candidate Starts for Puginator_76:
(Start: 4 @47286 has 1 MA's), (Start: 14 @47220 has 5 MA's), (15, 47217), (21, 47172), (22, 47157), (26, 47091), (27, 47088), (30, 46974),

Gene: Tefunt_74 Start: 46887, Stop: 46588, Start Num: 14
Candidate Starts for Tefunt_74:
(Start: 14 @46887 has 5 MA's), (20, 46845), (21, 46839), (22, 46824), (25, 46764), (26, 46758), (30, 46635),

Gene: Thestral_77 Start: 48719, Stop: 48348, Start Num: 3
Candidate Starts for Thestral_77:

(Start: 3 @48719 has 9 MA's), (Start: 14 @48641 has 5 MA's), (21, 48593), (22, 48578), (28, 48485), (30, 48395),

Gene: TinaBelcher_75 Start: 48581, Stop: 48210, Start Num: 3
Candidate Starts for TinaBelcher_75:
(Start: 3 @48581 has 9 MA's), (Start: 14 @48503 has 5 MA's), (21, 48455), (22, 48440), (28, 48347), (30, 48257),

Gene: Triumph_78 Start: 47686, Stop: 47393, Start Num: 13
Candidate Starts for Triumph_78:
(7, 47734), (Start: 13 @47686 has 4 MA's), (30, 47437),

Gene: TrvxScott_74 Start: 48686, Stop: 48315, Start Num: 3
Candidate Starts for TrvxScott_74:
(Start: 3 @48686 has 9 MA's), (Start: 14 @48608 has 5 MA's), (21, 48560), (22, 48545), (28, 48452), (30, 48362),

Gene: Zainub_77 Start: 47395, Stop: 47033, Start Num: 3
Candidate Starts for Zainub_77:
(Start: 3 @47395 has 9 MA's), (9, 47362), (10, 47353), (Start: 14 @47326 has 5 MA's), (21, 47278), (22, 47263), (26, 47197), (30, 47080),