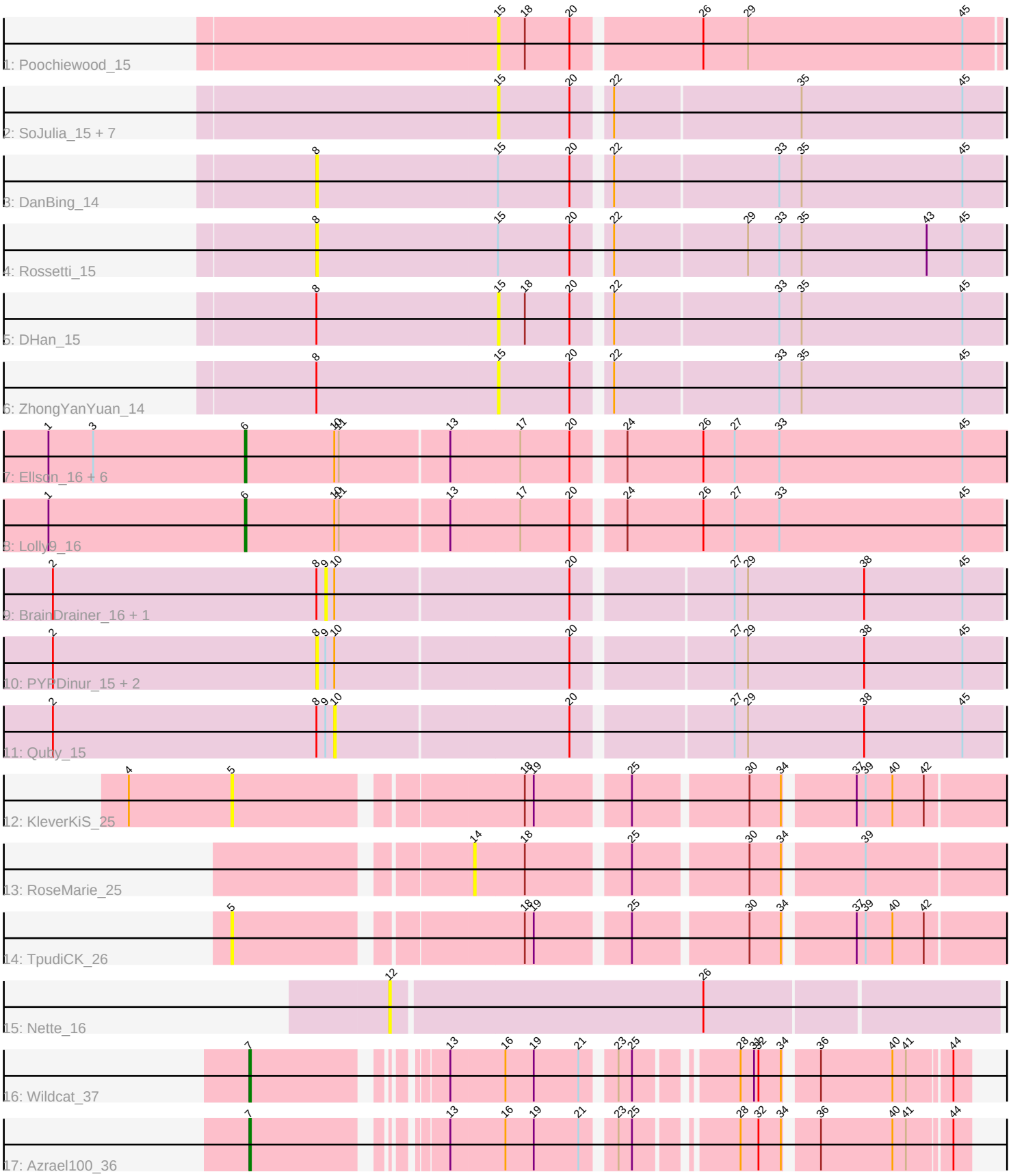
Pham 347874


1: Poochiewood_15
2: SoJulia_15 + 7
3: DanBing_14
4: Rossetti_15
5: DHan_15
6: ZhongYanYuan_14
7: Ellson_16 + 6
8: Lolly9_16
9: BrainDrainer_16 + 1
10: PYRDinur_15 + 2
11: Quby_15
12: KleverKiS_25
13: RoseMarie_25
14: TpudiCK_26
15: Nette_16
16: Wildcat_37
17: Azrael100_36

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 347874 Report

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

Pham number 347874 has 33 members, 28 are drafts.

Phages represented in each track:
• Track 1 : Poochiewood_15
• Track 2 : SoJulia_15, Sarshaun_15, Hafay_15, Molivier_15, Lynnae_15, ChengKai98_15, Soap141_15, Hiraya_15
• Track 3 : DanBing_14
• Track 4 : Rossetti_15
• Track 5 : DHan_15
• Track 6 : ZhongYanYuan_14
• Track 7 : Ellson_16, Red305_16, Moostard_16, LiyuLake_16, BourbonZero_15, KirDoubleO7_14, Snenia_16
• Track 8 : Lolly9_16
• Track 9 : BrainDrainer_16, Sheng711_15
• Track 10 : PYPDinur_15, FarmResident_15, Douzhi_15
• Track 11 : Quby_15
• Track 12 : KleverKiS_25
• Track 13 : RoseMarie_25
• Track 14 : TpudiCK_26
• Track 15 : Nette_16
• Track 16 : Wildcat_37
• Track 17 : Azrael100_36

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

The start number called the most often in the published annotations is 6, it was called in 3 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BourbonZero_15, Ellson_16, KirDoubleO7_14, LiyuLake_16, Lolly9_16, Moostard_16, Red305_16, Snenia_16,

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

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

• Azrael100_36, BrainDrainer_16, ChengKai98_15, DHan_15, DanBing_14, Douzhi_15, FarmResident_15, Hafay_15, Hiraya_15, KleverKiS_25, Lynnae_15, Molivier_15, Nette_16, PYPDinur_15, Poochiewood_15, Quby_15, RoseMarie_25, Rossetti_15, Sarshaun_15, Sheng711_15, SoJulia_15, Soap141_15, TpudiCK_26, Wildcat_37, ZhongYanYuan_14,

Summary by start number:

Start 5:
• Found in 2 of 33 (6.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: KleverKiS_25 (M1), TpudiCK_26 (M1),

Start 6:
• Found in 8 of 33 (24.2%) of genes in pham
• Manual Annotations of this start: 3 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BourbonZero_15 (L3), Ellson_16 (L3), KirDoubleO7_14 (L3), LiyuLake_16 (L3), Lolly9_16 (L3), Moostard_16 (L3), Red305_16 (L3), Snenia_16 (L3),

Start 7:
• Found in 2 of 33 (6.1%) of genes in pham
• Manual Annotations of this start: 2 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azrael100_36 (V), Wildcat_37 (V),

Start 8:
• Found in 10 of 33 (30.3%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: DanBing_14 (L2), Douzhi_15 (L4), FarmResident_15 (L4), PYPDinur_15 (L4), Rossetti_15 (L2),

Start 9:
• Found in 6 of 33 (18.2%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: BrainDrainer_16 (L4), Sheng711_15 (L4),

Start 10:
• Found in 14 of 33 (42.4%) of genes in pham
• No Manual Annotations of this start.
• Called 7.1% of time when present
• Phage (with cluster) where this start called: Quby_15 (L4),

Start 12:
• Found in 1 of 33 (3.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nette_16 (T),

Start 14:
• Found in 1 of 33 (3.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RoseMarie_25 (M1),

Start 15:
• Found in 13 of 33 (39.4%) of genes in pham
• No Manual Annotations of this start.
• Called 84.6% of time when present
• Phage (with cluster) where this start called: ChengKai98_15 (L2), DHan_15 (L2), Hafay_15 (L2), Hiraya_15 (L2), Lynnae_15 (L2), Molivier_15 (L2), Poochiewood_15 (L1), Sarshaun_15 (L2), SoJulia_15 (L2), Soap141_15 (L2), ZhongYanYuan_14 (L2),

Summary by clusters:

There are 7 clusters represented in this pham: L1, L4, M1, L3, V, L2, T,

Info for manual annotations of cluster L3:
•Start number 6 was manually annotated 3 times for cluster L3.

Info for manual annotations of cluster V:
•Start number 7 was manually annotated 2 times for cluster V.

Gene Information:

Gene: Azrael100_36 Start: 17300, Stop: 17713, Start Num: 7
Candidate Starts for Azrael100_36:
(Start: 7 @17300 has 2 MA's), (13, 17405), (16, 17441), (19, 17459), (21, 17489), (23, 17507), (25, 17516), (28, 17573), (32, 17585), (34, 17600), (36, 17618), (40, 17666), (41, 17675), (44, 17702),

Gene: BourbonZero_15 Start: 10435, Stop: 10950, Start Num: 6
Candidate Starts for BourbonZero_15:
(1, 10303), (3, 10333), (Start: 6 @10435 has 3 MA's), (10, 10495), (11, 10498), (13, 10570), (17, 10615), (20, 10648), (24, 10678), (26, 10729), (27, 10750), (33, 10780), (45, 10903),

Gene: BrainDrainer_16 Start: 10170, Stop: 10622, Start Num: 9
Candidate Starts for BrainDrainer_16:
(2, 9987), (8, 10164), (9, 10170), (10, 10176), (20, 10329), (27, 10428), (29, 10437), (38, 10515), (45, 10581),

Gene: ChengKai98_15 Start: 10472, Stop: 10813, Start Num: 15
Candidate Starts for ChengKai98_15:
(15, 10472), (20, 10520), (22, 10541), (35, 10664), (45, 10772),

Gene: DHan_15 Start: 10417, Stop: 10758, Start Num: 15
Candidate Starts for DHan_15:
(8, 10297), (15, 10417), (18, 10435), (20, 10465), (22, 10486), (33, 10594), (35, 10609), (45, 10717),

Gene: DanBing_14 Start: 10180, Stop: 10641, Start Num: 8
Candidate Starts for DanBing_14:
(8, 10180), (15, 10300), (20, 10348), (22, 10369), (33, 10477), (35, 10492), (45, 10600),

Gene: Douzhi_15 Start: 10025, Stop: 10483, Start Num: 8
Candidate Starts for Douzhi_15:
(2, 9848), (8, 10025), (9, 10031), (10, 10037), (20, 10190), (27, 10289), (29, 10298), (38, 10376), (45, 10442),

Gene: Ellson_16 Start: 10445, Stop: 10960, Start Num: 6
Candidate Starts for Ellson_16:
(1, 10313), (3, 10343), (Start: 6 @10445 has 3 MA's), (10, 10505), (11, 10508), (13, 10580), (17, 10625), (20, 10658), (24, 10688), (26, 10739), (27, 10760), (33, 10790), (45, 10913),

Gene: FarmResident_15 Start: 10069, Stop: 10527, Start Num: 8
Candidate Starts for FarmResident_15:
(2, 9892), (8, 10069), (9, 10075), (10, 10081), (20, 10234), (27, 10333), (29, 10342), (38, 10420), (45, 10486),

Gene: Hafay_15 Start: 10506, Stop: 10847, Start Num: 15
Candidate Starts for Hafay_15:
(15, 10506), (20, 10554), (22, 10575), (35, 10698), (45, 10806),

Gene: Hiraya_15 Start: 10473, Stop: 10814, Start Num: 15
Candidate Starts for Hiraya_15:
(15, 10473), (20, 10521), (22, 10542), (35, 10665), (45, 10773),

Gene: KirDoubleO7_14 Start: 10446, Stop: 10961, Start Num: 6
Candidate Starts for KirDoubleO7_14:
(1, 10314), (3, 10344), (Start: 6 @10446 has 3 MA's), (10, 10506), (11, 10509), (13, 10581), (17, 10626), (20, 10659), (24, 10689), (26, 10740), (27, 10761), (33, 10791), (45, 10914),

Gene: KleverKiS_25 Start: 14119, Stop: 14616, Start Num: 5
Candidate Starts for KleverKiS_25:
(4, 14050), (5, 14119), (18, 14296), (19, 14302), (25, 14359), (30, 14431), (34, 14452), (37, 14494), (39, 14500), (40, 14518), (42, 14539),

Gene: LiyuLake_16 Start: 10437, Stop: 10952, Start Num: 6
Candidate Starts for LiyuLake_16:
(1, 10305), (3, 10335), (Start: 6 @10437 has 3 MA's), (10, 10497), (11, 10500), (13, 10572), (17, 10617), (20, 10650), (24, 10680), (26, 10731), (27, 10752), (33, 10782), (45, 10905),

Gene: Lolly9_16 Start: 10438, Stop: 10947, Start Num: 6
Candidate Starts for Lolly9_16:
(1, 10306), (Start: 6 @10438 has 3 MA's), (10, 10498), (11, 10501), (13, 10573), (17, 10618), (20, 10651), (24, 10681), (26, 10732), (27, 10753), (33, 10783), (45, 10906),

Gene: Lynnae_15 Start: 10473, Stop: 10814, Start Num: 15
Candidate Starts for Lynnae_15:

(15, 10473), (20, 10521), (22, 10542), (35, 10665), (45, 10773),

Gene: Molivier_15 Start: 10479, Stop: 10820, Start Num: 15
Candidate Starts for Molivier_15:
(15, 10479), (20, 10527), (22, 10548), (35, 10671), (45, 10779),

Gene: Moostard_16 Start: 10428, Stop: 10943, Start Num: 6
Candidate Starts for Moostard_16:
(1, 10296), (3, 10326), (Start: 6 @10428 has 3 MA's), (10, 10488), (11, 10491), (13, 10563), (17, 10608), (20, 10641), (24, 10671), (26, 10722), (27, 10743), (33, 10773), (45, 10896),

Gene: Nette_16 Start: 11511, Stop: 11906, Start Num: 12
Candidate Starts for Nette_16:
(12, 11511), (26, 11715),

Gene: PYPDinur_15 Start: 10025, Stop: 10483, Start Num: 8
Candidate Starts for PYPDinur_15:
(2, 9848), (8, 10025), (9, 10031), (10, 10037), (20, 10190), (27, 10289), (29, 10298), (38, 10376), (45, 10442),

Gene: Poochiewood_15 Start: 10465, Stop: 10806, Start Num: 15
Candidate Starts for Poochiewood_15:
(15, 10465), (18, 10483), (20, 10513), (26, 10594), (29, 10624), (45, 10768),

Gene: Quby_15 Start: 10036, Stop: 10482, Start Num: 10
Candidate Starts for Quby_15:
(2, 9847), (8, 10024), (9, 10030), (10, 10036), (20, 10189), (27, 10288), (29, 10297), (38, 10375), (45, 10441),

Gene: Red305_16 Start: 10431, Stop: 10946, Start Num: 6
Candidate Starts for Red305_16:
(1, 10299), (3, 10329), (Start: 6 @10431 has 3 MA's), (10, 10491), (11, 10494), (13, 10566), (17, 10611), (20, 10644), (24, 10674), (26, 10725), (27, 10746), (33, 10776), (45, 10899),

Gene: RoseMarie_25 Start: 14509, Stop: 14862, Start Num: 14
Candidate Starts for RoseMarie_25:
(14, 14509), (18, 14542), (25, 14605), (30, 14677), (34, 14698), (39, 14746),

Gene: Rossetti_15 Start: 10352, Stop: 10813, Start Num: 8
Candidate Starts for Rossetti_15:
(8, 10352), (15, 10472), (20, 10520), (22, 10541), (29, 10628), (33, 10649), (35, 10664), (43, 10748), (45, 10772),

Gene: Sarshaun_15 Start: 10506, Stop: 10847, Start Num: 15
Candidate Starts for Sarshaun_15:
(15, 10506), (20, 10554), (22, 10575), (35, 10698), (45, 10806),

Gene: Sheng711_15 Start: 10031, Stop: 10483, Start Num: 9
Candidate Starts for Sheng711_15:
(2, 9848), (8, 10025), (9, 10031), (10, 10037), (20, 10190), (27, 10289), (29, 10298), (38, 10376), (45, 10442),

Gene: Snenia_16 Start: 10432, Stop: 10947, Start Num: 6

Candidate Starts for Snenia_16:
(1, 10300), (3, 10330), (Start: 6 @10432 has 3 MA's), (10, 10492), (11, 10495), (13, 10567), (17, 10612), (20, 10645), (24, 10675), (26, 10726), (27, 10747), (33, 10777), (45, 10900),

Gene: SoJulia_15 Start: 10472, Stop: 10813, Start Num: 15
Candidate Starts for SoJulia_15:
(15, 10472), (20, 10520), (22, 10541), (35, 10664), (45, 10772),

Gene: Soap141_15 Start: 10506, Stop: 10847, Start Num: 15
Candidate Starts for Soap141_15:
(15, 10506), (20, 10554), (22, 10575), (35, 10698), (45, 10806),

Gene: TpudiCK_26 Start: 14135, Stop: 14632, Start Num: 5
Candidate Starts for TpudiCK_26:
(5, 14135), (18, 14312), (19, 14318), (25, 14375), (30, 14447), (34, 14468), (37, 14510), (39, 14516), (40, 14534), (42, 14555),

Gene: Wildcat_37 Start: 17287, Stop: 17700, Start Num: 7
Candidate Starts for Wildcat_37:
(Start: 7 @17287 has 2 MA's), (13, 17392), (16, 17428), (19, 17446), (21, 17476), (23, 17494), (25, 17503), (28, 17560), (31, 17569), (32, 17572), (34, 17587), (36, 17605), (40, 17653), (41, 17662), (44, 17689),

Gene: ZhongYanYuan_14 Start: 10301, Stop: 10642, Start Num: 15
Candidate Starts for ZhongYanYuan_14:
(8, 10181), (15, 10301), (20, 10349), (22, 10370), (33, 10478), (35, 10493), (45, 10601),