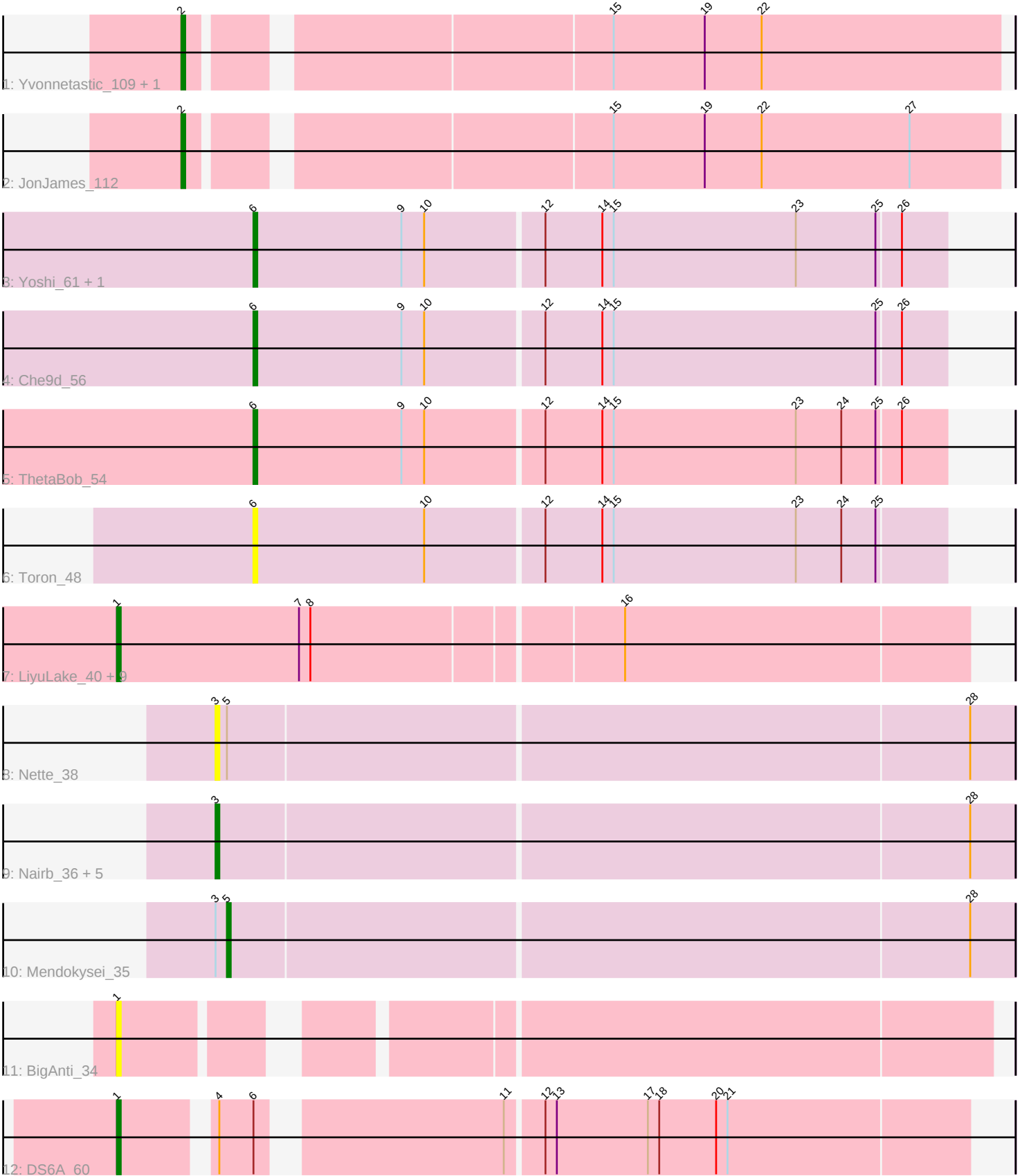


Pham 331135



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 331135 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331135 has 28 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Yvonnetastic_109, Cardigan_110
- Track 2 : JonJames_112
- Track 3 : Yoshi_61, Demsculpinboyz_59
- Track 4 : Che9d_56
- Track 5 : ThetaBob_54
- Track 6 : Toron_48
- Track 7 : LiyuLake_40, MiniLon_40, Lolly9_40, Krypton555_40, Whirlwind_41, MiniMac_40, DuncansLeg_40, KirDoubleO7_38, BourbonZero_39, Ellson_40
- Track 8 : Nette_38
- Track 9 : Nairb_36, Bernal13_37, Whitty_37, ZenTime222_36, Ibrahim_37, RonRayGun_37
- Track 10 : Mendokysei_35
- Track 11 : BigAnti_34
- Track 12 : DS6A_60

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

The start number called the most often in the published annotations is 1, it was called in 7 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BigAnti_34, BourbonZero_39, DS6A_60, DuncansLeg_40, Ellson_40, KirDoubleO7_38, Krypton555_40, LiyuLake_40, Lolly9_40, MiniLon_40, MiniMac_40, Whirlwind_41,

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

-

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

- Bernal13_37, Cardigan_110, Che9d_56, Demsculpinboyz_59, Ibrahim_37, JonJames_112, Mendokysei_35, Nairb_36, Nette_38, RonRayGun_37, ThetaBob_54, Toron_48, Whitty_37, Yoshi_61, Yvonnetastic_109, ZenTime222_36,

Summary by start number:

Start 1:

- Found in 12 of 28 (42.9%) of genes in pham
- Manual Annotations of this start: 7 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigAnti_34 (singleton), BourbonZero_39 (L3), DS6A_60 (singleton), DuncansLeg_40 (L3), Ellison_40 (L3), KirDoubleO7_38 (L3), Krypton555_40 (L3), LiyuLake_40 (L3), Lolly9_40 (L3), MiniLon_40 (L3), MiniMac_40 (L3), Whirlwind_41 (L3),

Start 2:

- Found in 3 of 28 (10.7%) of genes in pham
- Manual Annotations of this start: 3 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan_110 (DD), JonJames_112 (DD), Yvonnetastic_109 (DD),

Start 3:

- Found in 8 of 28 (28.6%) of genes in pham
- Manual Annotations of this start: 6 of 21
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Bernal13_37 (T), Ibrahim_37 (T), Nairb_36 (T), Nette_38 (T), RonRayGun_37 (T), Whitty_37 (T), ZenTime222_36 (T),

Start 5:

- Found in 2 of 28 (7.1%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Mendokysei_35 (T),

Start 6:

- Found in 6 of 28 (21.4%) of genes in pham
- Manual Annotations of this start: 4 of 21
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Che9d_56 (F2), Demsculpinboyz_59 (F2), ThetaBob_54 (F4), Toron_48 (F6), Yoshi_61 (F2),

Summary by clusters:

There are 7 clusters represented in this pham: F2, F4, F6, DD, singleton, L3, T,

Info for manual annotations of cluster DD:

- Start number 2 was manually annotated 3 times for cluster DD.

Info for manual annotations of cluster F2:

- Start number 6 was manually annotated 3 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 6 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster L3:

- Start number 1 was manually annotated 6 times for cluster L3.

Info for manual annotations of cluster T:

- Start number 3 was manually annotated 6 times for cluster T.
- Start number 5 was manually annotated 1 time for cluster T.

Gene Information:

Gene: Bernal13_37 Start: 30311, Stop: 30517, Start Num: 3

Candidate Starts for Bernal13_37:

(Start: 3 @30311 has 6 MA's), (28, 30506),

Gene: BigAnti_34 Start: 36676, Stop: 36885, Start Num: 1

Candidate Starts for BigAnti_34:

(Start: 1 @36676 has 7 MA's),

Gene: BourbonZero_39 Start: 34932, Stop: 35150, Start Num: 1

Candidate Starts for BourbonZero_39:

(Start: 1 @34932 has 7 MA's), (7, 34980), (8, 34983), (16, 35061),

Gene: Cardigan_110 Start: 64662, Stop: 64865, Start Num: 2

Candidate Starts for Cardigan_110:

(Start: 2 @64662 has 3 MA's), (15, 64764), (19, 64788), (22, 64803),

Gene: Che9d_56 Start: 35970, Stop: 36149, Start Num: 6

Candidate Starts for Che9d_56:

(Start: 6 @35970 has 4 MA's), (9, 36009), (10, 36015), (12, 36045), (14, 36060), (15, 36063), (25, 36132), (26, 36138),

Gene: DS6A_60 Start: 41278, Stop: 41484, Start Num: 1

Candidate Starts for DS6A_60:

(Start: 1 @41278 has 7 MA's), (4, 41299), (Start: 6 @41308 has 4 MA's), (11, 41365), (12, 41374), (13, 41377), (17, 41401), (18, 41404), (20, 41419), (21, 41422),

Gene: Demsculpinboyz_59 Start: 36079, Stop: 36258, Start Num: 6

Candidate Starts for Demsculpinboyz_59:

(Start: 6 @36079 has 4 MA's), (9, 36118), (10, 36124), (12, 36154), (14, 36169), (15, 36172), (23, 36220), (25, 36241), (26, 36247),

Gene: DuncansLeg_40 Start: 34969, Stop: 35187, Start Num: 1

Candidate Starts for DuncansLeg_40:

(Start: 1 @34969 has 7 MA's), (7, 35017), (8, 35020), (16, 35098),

Gene: Ellson_40 Start: 34945, Stop: 35163, Start Num: 1

Candidate Starts for Ellson_40:

(Start: 1 @34945 has 7 MA's), (7, 34993), (8, 34996), (16, 35074),

Gene: Ibrahim_37 Start: 30757, Stop: 30963, Start Num: 3

Candidate Starts for Ibrahim_37:

(Start: 3 @30757 has 6 MA's), (28, 30952),

Gene: JonJames_112 Start: 65173, Stop: 65376, Start Num: 2

Candidate Starts for JonJames_112:

(Start: 2 @65173 has 3 MA's), (15, 65275), (19, 65299), (22, 65314), (27, 65353),

Gene: KirDoubleO7_38 Start: 34973, Stop: 35191, Start Num: 1

Candidate Starts for KirDoubleO7_38:

(Start: 1 @34973 has 7 MA's), (7, 35021), (8, 35024), (16, 35102),

Gene: Krypton555_40 Start: 34868, Stop: 35083, Start Num: 1

Candidate Starts for Krypton555_40:

(Start: 1 @34868 has 7 MA's), (7, 34913), (8, 34916), (16, 34994),

Gene: LiyuLake_40 Start: 34935, Stop: 35153, Start Num: 1

Candidate Starts for LiyuLake_40:

(Start: 1 @34935 has 7 MA's), (7, 34983), (8, 34986), (16, 35064),

Gene: Lolly9_40 Start: 34759, Stop: 34977, Start Num: 1

Candidate Starts for Lolly9_40:

(Start: 1 @34759 has 7 MA's), (7, 34807), (8, 34810), (16, 34888),

Gene: Mendokysei_35 Start: 29852, Stop: 30055, Start Num: 5

Candidate Starts for Mendokysei_35:

(Start: 3 @29849 has 6 MA's), (Start: 5 @29852 has 1 MA's), (28, 30044),

Gene: MiniLon_40 Start: 34760, Stop: 34978, Start Num: 1

Candidate Starts for MiniLon_40:

(Start: 1 @34760 has 7 MA's), (7, 34808), (8, 34811), (16, 34889),

Gene: MiniMac_40 Start: 34757, Stop: 34975, Start Num: 1

Candidate Starts for MiniMac_40:

(Start: 1 @34757 has 7 MA's), (7, 34805), (8, 34808), (16, 34886),

Gene: Nairb_36 Start: 30311, Stop: 30517, Start Num: 3

Candidate Starts for Nairb_36:

(Start: 3 @30311 has 6 MA's), (28, 30506),

Gene: Nette_38 Start: 29858, Stop: 30064, Start Num: 3

Candidate Starts for Nette_38:

(Start: 3 @29858 has 6 MA's), (Start: 5 @29861 has 1 MA's), (28, 30053),

Gene: RonRayGun_37 Start: 30757, Stop: 30963, Start Num: 3

Candidate Starts for RonRayGun_37:

(Start: 3 @30757 has 6 MA's), (28, 30952),

Gene: ThetaBob_54 Start: 36886, Stop: 37065, Start Num: 6

Candidate Starts for ThetaBob_54:

(Start: 6 @36886 has 4 MA's), (9, 36925), (10, 36931), (12, 36961), (14, 36976), (15, 36979), (23, 37027), (24, 37039), (25, 37048), (26, 37054),

Gene: Toron_48 Start: 36637, Stop: 36816, Start Num: 6

Candidate Starts for Toron_48:

(Start: 6 @36637 has 4 MA's), (10, 36682), (12, 36712), (14, 36727), (15, 36730), (23, 36778), (24, 36790), (25, 36799),

Gene: Whirlwind_41 Start: 34710, Stop: 34925, Start Num: 1
Candidate Starts for Whirlwind_41:
(Start: 1 @34710 has 7 MA's), (7, 34755), (8, 34758), (16, 34836),

Gene: Whitty_37 Start: 30311, Stop: 30517, Start Num: 3
Candidate Starts for Whitty_37:
(Start: 3 @30311 has 6 MA's), (28, 30506),

Gene: Yoshi_61 Start: 38120, Stop: 38299, Start Num: 6
Candidate Starts for Yoshi_61:
(Start: 6 @38120 has 4 MA's), (9, 38159), (10, 38165), (12, 38195), (14, 38210), (15, 38213), (23, 38261), (25, 38282), (26, 38288),

Gene: Yvonnetastic_109 Start: 62358, Stop: 62561, Start Num: 2
Candidate Starts for Yvonnetastic_109:
(Start: 2 @62358 has 3 MA's), (15, 62460), (19, 62484), (22, 62499),

Gene: ZenTime222_36 Start: 30311, Stop: 30517, Start Num: 3
Candidate Starts for ZenTime222_36:
(Start: 3 @30311 has 6 MA's), (28, 30506),