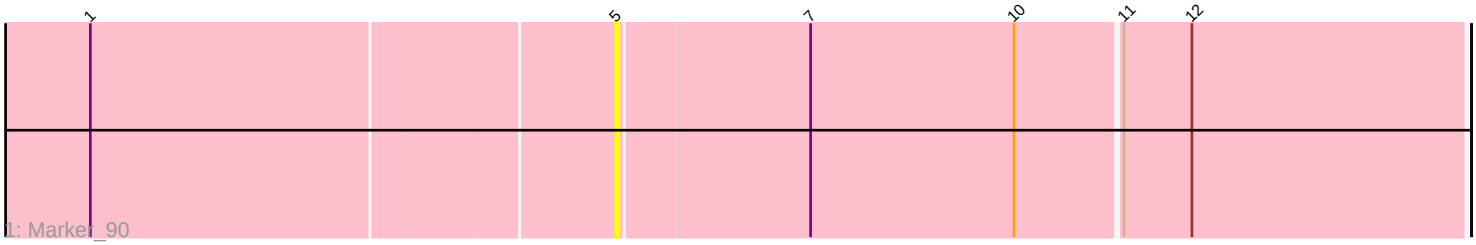
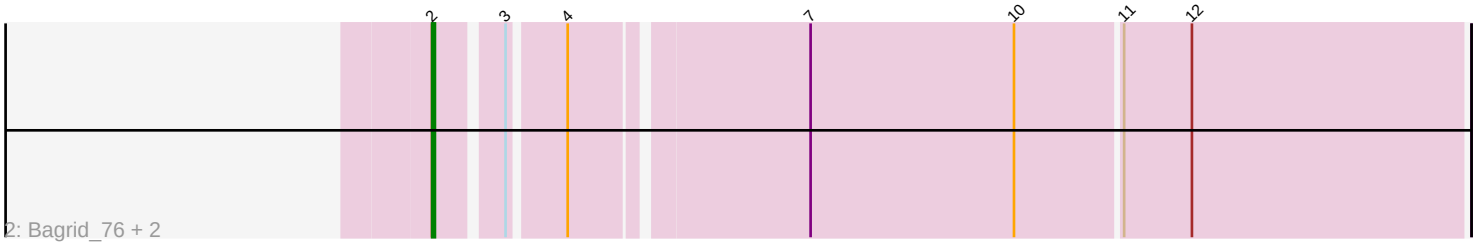
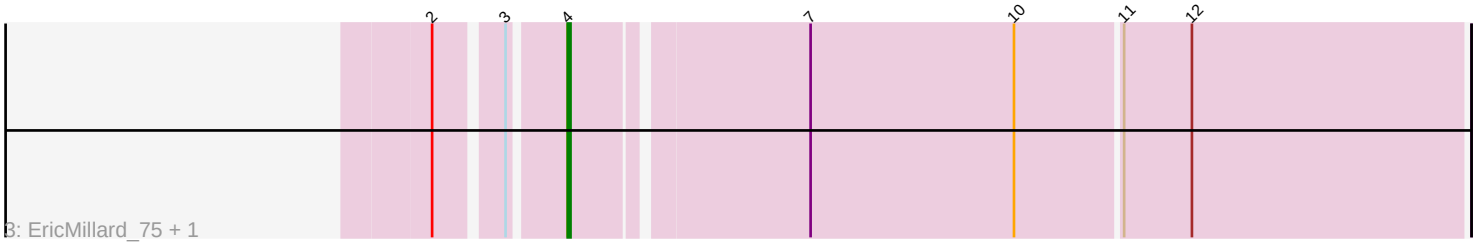
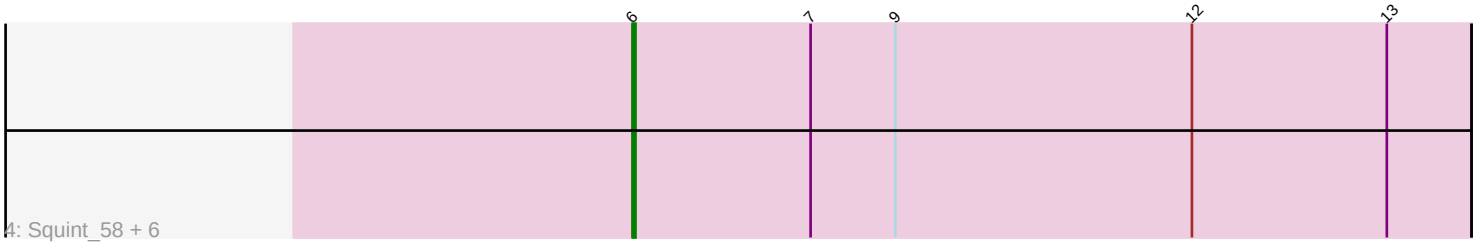
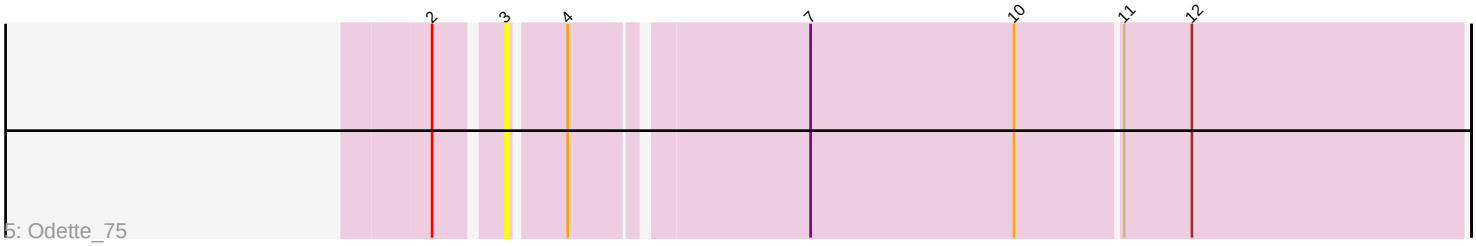
# Pham 87296

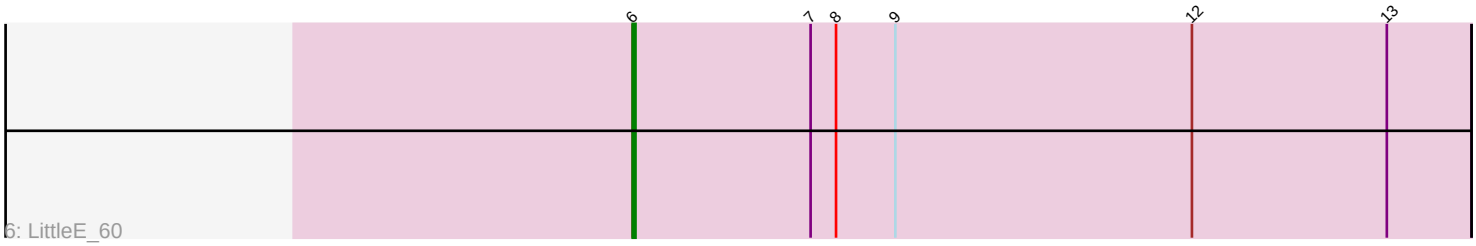

1
5
7
10
11
12
1: Market_90


2
3
4
7
10
11
12
2: Bagrid_76 + 2


2
3
4
7
10
11
12
3: EricMillard_75 + 1


6
7
9
12
13
4: Squint_58 + 6


2
3
4
7
10
11
12
5: Odette_75


6
7
8
9
12
13
6: LittleE_60

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 87296 Report

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

Pham number 87296 has 15 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Marker_90
• Track 2 : Bagrid_76, DmpstrDiver_76, Schatzie_71
• Track 3 : EricMillard_75, Hughesyang_75
• Track 4 : Squint_58, Ariel_58, Superphikiman_59, Lucky2013_59, Porcelain_57, Courthouse_58, MiaZeal_58
• Track 5 : Odette_75
• Track 6 : LittleE_60

***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 8 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ariel_58, Courthouse_58, LittleE_60, Lucky2013_59, MiaZeal_58, Porcelain_57, Squint_58, Superphikiman_59,

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

Genes that do not have the "Most Annotated" start:
• Bagrid_76, DmpstrDiver_76, EricMillard_75, Hughesyang_75, Marker_90, Odette_75, Schatzie_71,

**Summary by start number:**

Start 2:
• Found in 6 of 15 ( 40.0% ) of genes in pham
• Manual Annotations of this start: 2 of 12
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Bagrid_76 (J), DmpstrDiver_76 (J), Schatzie_71 (J),

Start 3:

• Found in 6 of 15 ( 40.0% ) of genes in pham
• No Manual Annotations of this start.
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Odette_75 (J),

Start 4:
• Found in 6 of 15 ( 40.0% ) of genes in pham
• Manual Annotations of this start: 2 of 12
• Called 33.3% of time when present
• Phage (with cluster) where this start called: EricMillard_75 (J), Hughesyang_75 (J),

Start 5:
• Found in 1 of 15 ( 6.7% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Marker_90 (F1),

Start 6:
• Found in 8 of 15 ( 53.3% ) of genes in pham
• Manual Annotations of this start: 8 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ariel_58 (J), Courthouse_58 (J), LittleE_60 (J), Lucky2013_59 (J), MiaZeal_58 (J), Porcelain_57 (J), Squint_58 (J), Superphikiman_59 (J),

**Summary by clusters:**

There are 2 clusters represented in this pham: F1, J,

Info for manual annotations of cluster J:
•Start number 2 was manually annotated 2 times for cluster J.
•Start number 4 was manually annotated 2 times for cluster J.
•Start number 6 was manually annotated 8 times for cluster J.

***Gene Information:***

Gene: Ariel_58 Start: 42874, Stop: 42578, Start Num: 6
Candidate Starts for Ariel_58:
(Start: 6 @42874 has 8 MA's), (7, 42811), (9, 42781), (12, 42676), (13, 42607),

Gene: Bagrid_76 Start: 51107, Stop: 50763, Start Num: 2
Candidate Starts for Bagrid_76:
(Start: 2 @51107 has 2 MA's), (3, 51086), (Start: 4 @51068 has 2 MA's), (7, 50990), (10, 50918), (11, 50882), (12, 50858),

Gene: Courthouse_58 Start: 43278, Stop: 42982, Start Num: 6
Candidate Starts for Courthouse_58:
(Start: 6 @43278 has 8 MA's), (7, 43215), (9, 43185), (12, 43080), (13, 43011),

Gene: DmpstrDiver_76 Start: 51315, Stop: 50971, Start Num: 2

Candidate Starts for DmpstrDiver_76:
(Start: 2 @51315 has 2 MA's), (3, 51294), (Start: 4 @51276 has 2 MA's), (7, 51198), (10, 51126), (11, 51090), (12, 51066),

Gene: EricMillard_75 Start: 51921, Stop: 51616, Start Num: 4
Candidate Starts for EricMillard_75:
(Start: 2 @51960 has 2 MA's), (3, 51939), (Start: 4 @51921 has 2 MA's), (7, 51843), (10, 51771), (11, 51735), (12, 51711),

Gene: Hughesyang_75 Start: 51887, Stop: 51582, Start Num: 4
Candidate Starts for Hughesyang_75:
(Start: 2 @51926 has 2 MA's), (3, 51905), (Start: 4 @51887 has 2 MA's), (7, 51809), (10, 51737), (11, 51701), (12, 51677),

Gene: LittleE_60 Start: 45893, Stop: 45597, Start Num: 6
Candidate Starts for LittleE_60:
(Start: 6 @45893 has 8 MA's), (7, 45830), (8, 45821), (9, 45800), (12, 45695), (13, 45626),

Gene: Lucky2013_59 Start: 43414, Stop: 43118, Start Num: 6
Candidate Starts for Lucky2013_59:
(Start: 6 @43414 has 8 MA's), (7, 43351), (9, 43321), (12, 43216), (13, 43147),

Gene: Marker_90 Start: 48779, Stop: 49072, Start Num: 5
Candidate Starts for Marker_90:
(1, 48599), (5, 48779), (7, 48845), (10, 48917), (11, 48953), (12, 48977),

Gene: MiaZeal_58 Start: 43089, Stop: 42793, Start Num: 6
Candidate Starts for MiaZeal_58:
(Start: 6 @43089 has 8 MA's), (7, 43026), (9, 42996), (12, 42891), (13, 42822),

Gene: Odette_75 Start: 51076, Stop: 50753, Start Num: 3
Candidate Starts for Odette_75:
(Start: 2 @51097 has 2 MA's), (3, 51076), (Start: 4 @51058 has 2 MA's), (7, 50980), (10, 50908), (11, 50872), (12, 50848),

Gene: Porcelain_57 Start: 43089, Stop: 42793, Start Num: 6
Candidate Starts for Porcelain_57:
(Start: 6 @43089 has 8 MA's), (7, 43026), (9, 42996), (12, 42891), (13, 42822),

Gene: Schatzie_71 Start: 50844, Stop: 50500, Start Num: 2
Candidate Starts for Schatzie_71:
(Start: 2 @50844 has 2 MA's), (3, 50823), (Start: 4 @50805 has 2 MA's), (7, 50727), (10, 50655), (11, 50619), (12, 50595),

Gene: Squint_58 Start: 43208, Stop: 42912, Start Num: 6
Candidate Starts for Squint_58:
(Start: 6 @43208 has 8 MA's), (7, 43145), (9, 43115), (12, 43010), (13, 42941),

Gene: Superphikiman_59 Start: 43280, Stop: 42984, Start Num: 6
Candidate Starts for Superphikiman_59:
(Start: 6 @43280 has 8 MA's), (7, 43217), (9, 43187), (12, 43082), (13, 43013),