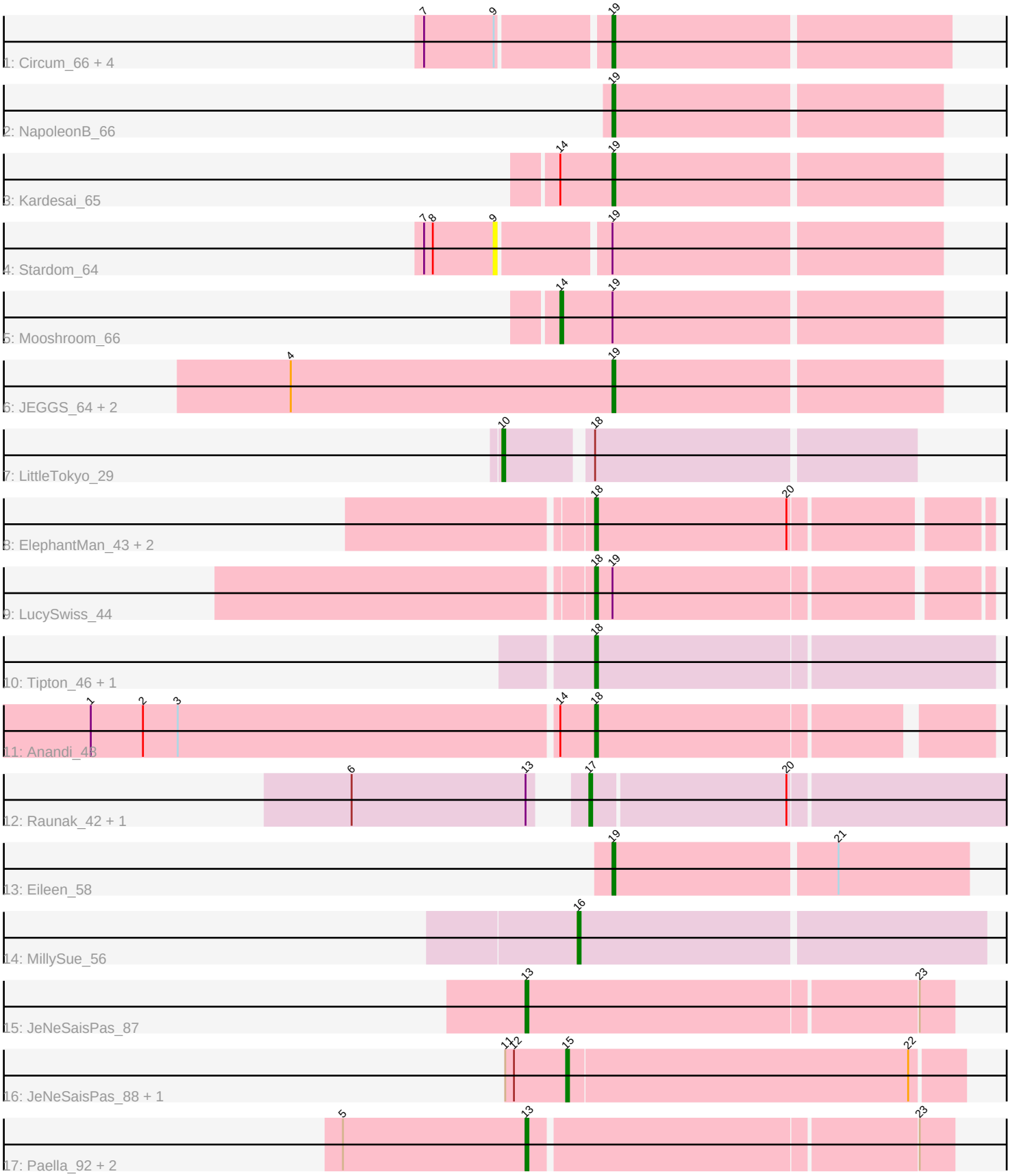
Pham 333087


1: Circum_66 + 4
2: NapoleonB_66
3: Kardesai_65
4: Stardom_64
5: Mooshroom_66
6: JEGGS_64 + 2
7: LittleTokyo_29
8: ElephantMan_43 + 2
9: LucySwiss_44
10: Tipton_46 + 1
11: Anandi_43
12: Raunak_42 + 1
13: Eileen_58
14: MillySue_56
15: JeNeSaisPas_87
16: JeNeSaisPas_88 + 1
17: Paella_92 + 2

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 333087 Report

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

Pham number 333087 has 30 members, 2 are drafts.

Phages represented in each track:
- Track 1 : Circum_66, Tribby_68, Cheesy_65, Correa_63, Hankly_64
- Track 2 : NapoleonB_66
- Track 3 : Kardesai_65
- Track 4 : Stardom_64
- Track 5 : Mooshroom_66
- Track 6 : JEGGS_64, Bowling_66, Heisenberger_64
- Track 7 : LittleTokyo_29
- Track 8 : ElephantMan_43, CastorTray_46, Niktson_43
- Track 9 : LucySwiss_44
- Track 10 : Tipton_46, Tokki_47
- Track 11 : Anandi_48
- Track 12 : Raunak_42, Spain_45
- Track 13 : Eileen_58
- Track 14 : MillySue_56
- Track 15 : JeNeSaisPas_87
- Track 16 : JeNeSaisPas_88, Elver_91
- Track 17 : Paella_92, Qui_92, Elver_90

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

The start number called the most often in the published annotations is 19, it was called in 11 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Bowling_66, Cheesy_65, Circum_66, Correa_63, Eileen_58, Hankly_64, Heisenberger_64, JEGGS_64, Kardesai_65, NapoleonB_66, Tribby_68,

Genes that have the "Most Annotated" start but do not call it:
- LucySwiss_44, Mooshroom_66, Stardom_64,

Genes that do not have the "Most Annotated" start:
- Anandi_48, CastorTray_46, ElephantMan_43, Elver_90, Elver_91, JeNeSaisPas_87, JeNeSaisPas_88, LittleTokyo_29, MillySue_56, Niktson_43, Paella_92, Qui_92, Raunak_42, Spain_45, Tipton_46, Tokki_47,

Summary by start number:

Start 9:
• Found in 6 of 30 (20.0%) of genes in pham
• No Manual Annotations of this start.
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Stardom_64 (AM),

Start 10:
• Found in 1 of 30 (3.3%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LittleTokyo_29 (AS2),

Start 13:
• Found in 6 of 30 (20.0%) of genes in pham
• Manual Annotations of this start: 4 of 28
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Elver_90 (FK), JeNeSaisPas_87 (FK), Paella_92 (FK), Qui_92 (FK),

Start 14:
• Found in 3 of 30 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Mooshroom_66 (AM),

Start 15:
• Found in 2 of 30 (6.7%) of genes in pham
• Manual Annotations of this start: 2 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Elver_91 (FK), JeNeSaisPas_88 (FK),

Start 16:
• Found in 1 of 30 (3.3%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MillySue_56 (FF),

Start 17:
• Found in 2 of 30 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Raunak_42 (AW), Spain_45 (AW),

Start 18:
• Found in 8 of 30 (26.7%) of genes in pham
• Manual Annotations of this start: 7 of 28
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Anandi_48 (AU4), CastorTray_46 (AU1), ElephantMan_43 (AU1), LucySwiss_44 (AU1), Niktson_43 (AU1), Tipton_46 (AU2), Tokki_47 (AU2),

Start 19:
• Found in 14 of 30 (46.7%) of genes in pham
• Manual Annotations of this start: 11 of 28
• Called 78.6% of time when present
• Phage (with cluster) where this start called: Bowling_66 (AM), Cheesy_65 (AM), Circum_66 (AM), Correa_63 (AM), Eileen_58 (FA), Hankly_64 (AM), Heisenberger_64 (AM), JEGGS_64 (AM), Kardesai_65 (AM), NapoleonB_66 (AM), Tribby_68 (AM),

Summary by clusters:

There are 9 clusters represented in this pham: AS2, FF, AM, AU1, FA, AU2, AU4, AW, FK,

Info for manual annotations of cluster AM:
•Start number 14 was manually annotated 1 time for cluster AM.
•Start number 19 was manually annotated 10 times for cluster AM.

Info for manual annotations of cluster AS2:
•Start number 10 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AU1:
•Start number 18 was manually annotated 4 times for cluster AU1.

Info for manual annotations of cluster AU2:
•Start number 18 was manually annotated 2 times for cluster AU2.

Info for manual annotations of cluster AU4:
•Start number 18 was manually annotated 1 time for cluster AU4.

Info for manual annotations of cluster AW:
•Start number 17 was manually annotated 1 time for cluster AW.

Info for manual annotations of cluster FA:
•Start number 19 was manually annotated 1 time for cluster FA.

Info for manual annotations of cluster FF:
•Start number 16 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster FK:
•Start number 13 was manually annotated 4 times for cluster FK.
•Start number 15 was manually annotated 2 times for cluster FK.

Gene Information:

Gene: Anandi_48 Start: 33696, Stop: 33824, Start Num: 18
Candidate Starts for Anandi_48:
(1, 33525), (2, 33543), (3, 33555), (Start: 14 @33684 has 1 MA's), (Start: 18 @33696 has 7 MA's),

Gene: Bowling_66 Start: 42311, Stop: 42424, Start Num: 19

Candidate Starts for Bowling_66:
(4, 42200), (Start: 19 @42311 has 11 MA's),

Gene: CastorTray_46 Start: 33775, Stop: 33903, Start Num: 18
Candidate Starts for CastorTray_46:
(Start: 18 @33775 has 7 MA's), (20, 33841),

Gene: Cheesy_65 Start: 41545, Stop: 41658, Start Num: 19
Candidate Starts for Cheesy_65:
(7, 41485), (9, 41509), (Start: 19 @41545 has 11 MA's),

Gene: Circum_66 Start: 42112, Stop: 42225, Start Num: 19
Candidate Starts for Circum_66:
(7, 42052), (9, 42076), (Start: 19 @42112 has 11 MA's),

Gene: Correa_63 Start: 41116, Stop: 41229, Start Num: 19
Candidate Starts for Correa_63:
(7, 41056), (9, 41080), (Start: 19 @41116 has 11 MA's),

Gene: Eileen_58 Start: 38097, Stop: 38216, Start Num: 19
Candidate Starts for Eileen_58:
(Start: 19 @38097 has 11 MA's), (21, 38172),

Gene: ElephantMan_43 Start: 33620, Stop: 33748, Start Num: 18
Candidate Starts for ElephantMan_43:
(Start: 18 @33620 has 7 MA's), (20, 33686),

Gene: Elver_91 Start: 52137, Stop: 52271, Start Num: 15
Candidate Starts for Elver_91:
(11, 52116), (12, 52119), (Start: 15 @52137 has 2 MA's), (22, 52254),

Gene: Elver_90 Start: 51994, Stop: 52134, Start Num: 13
Candidate Starts for Elver_90:
(5, 51931), (Start: 13 @51994 has 4 MA's), (23, 52123),

Gene: Hankly_64 Start: 41193, Stop: 41303, Start Num: 19
Candidate Starts for Hankly_64:
(7, 41133), (9, 41157), (Start: 19 @41193 has 11 MA's),

Gene: Heisenberger_64 Start: 41531, Stop: 41641, Start Num: 19
Candidate Starts for Heisenberger_64:
(4, 41420), (Start: 19 @41531 has 11 MA's),

Gene: JEGGS_64 Start: 41610, Stop: 41720, Start Num: 19
Candidate Starts for JEGGS_64:
(4, 41499), (Start: 19 @41610 has 11 MA's),

Gene: JeNeSaisPas_87 Start: 51421, Stop: 51564, Start Num: 13
Candidate Starts for JeNeSaisPas_87:
(Start: 13 @51421 has 4 MA's), (23, 51553),

Gene: JeNeSaisPas_88 Start: 51567, Stop: 51701, Start Num: 15
Candidate Starts for JeNeSaisPas_88:

(11, 51546), (12, 51549), (Start: 15 @51567 has 2 MA's), (22, 51684),

Gene: Kardesai_65 Start: 41919, Stop: 42029, Start Num: 19
Candidate Starts for Kardesai_65:
(Start: 14 @41901 has 1 MA's), (Start: 19 @41919 has 11 MA's),

Gene: LittleTokyo_29 Start: 20599, Stop: 20465, Start Num: 10
Candidate Starts for LittleTokyo_29:
(Start: 10 @20599 has 1 MA's), (Start: 18 @20572 has 7 MA's),

Gene: LucySwiss_44 Start: 33041, Stop: 33169, Start Num: 18
Candidate Starts for LucySwiss_44:
(Start: 18 @33041 has 7 MA's), (Start: 19 @33047 has 11 MA's),

Gene: MillySue_56 Start: 36662, Stop: 36799, Start Num: 16
Candidate Starts for MillySue_56:
(Start: 16 @36662 has 1 MA's),

Gene: Mooshroom_66 Start: 41901, Stop: 42029, Start Num: 14
Candidate Starts for Mooshroom_66:
(Start: 14 @41901 has 1 MA's), (Start: 19 @41919 has 11 MA's),

Gene: NapoleonB_66 Start: 42125, Stop: 42235, Start Num: 19
Candidate Starts for NapoleonB_66:
(Start: 19 @42125 has 11 MA's),

Gene: Niktson_43 Start: 33620, Stop: 33748, Start Num: 18
Candidate Starts for Niktson_43:
(Start: 18 @33620 has 7 MA's), (20, 33686),

Gene: Paella_92 Start: 52584, Stop: 52724, Start Num: 13
Candidate Starts for Paella_92:
(5, 52521), (Start: 13 @52584 has 4 MA's), (23, 52713),

Gene: Qui_92 Start: 52584, Stop: 52724, Start Num: 13
Candidate Starts for Qui_92:
(5, 52521), (Start: 13 @52584 has 4 MA's), (23, 52713),

Gene: Raunak_42 Start: 30555, Stop: 30695, Start Num: 17
Candidate Starts for Raunak_42:
(6, 30486), (Start: 13 @30546 has 4 MA's), (Start: 17 @30555 has 1 MA's), (20, 30621),

Gene: Spain_45 Start: 30857, Stop: 30997, Start Num: 17
Candidate Starts for Spain_45:
(6, 30788), (Start: 13 @30848 has 4 MA's), (Start: 17 @30857 has 1 MA's), (20, 30923),

Gene: Stardom_64 Start: 40880, Stop: 41026, Start Num: 9
Candidate Starts for Stardom_64:
(7, 40856), (8, 40859), (9, 40880), (Start: 19 @40916 has 11 MA's),

Gene: Tipton_46 Start: 33486, Stop: 33620, Start Num: 18
Candidate Starts for Tipton_46:
(Start: 18 @33486 has 7 MA's),

Gene: Tokki_47 Start: 33138, Stop: 33272, Start Num: 18
Candidate Starts for Tokki_47:
(Start: 18 @33138 has 7 MA's),

Gene: Tribby_68 Start: 42502, Stop: 42615, Start Num: 19
Candidate Starts for Tribby_68:
(7, 42442), (9, 42466), (Start: 19 @42502 has 11 MA's),