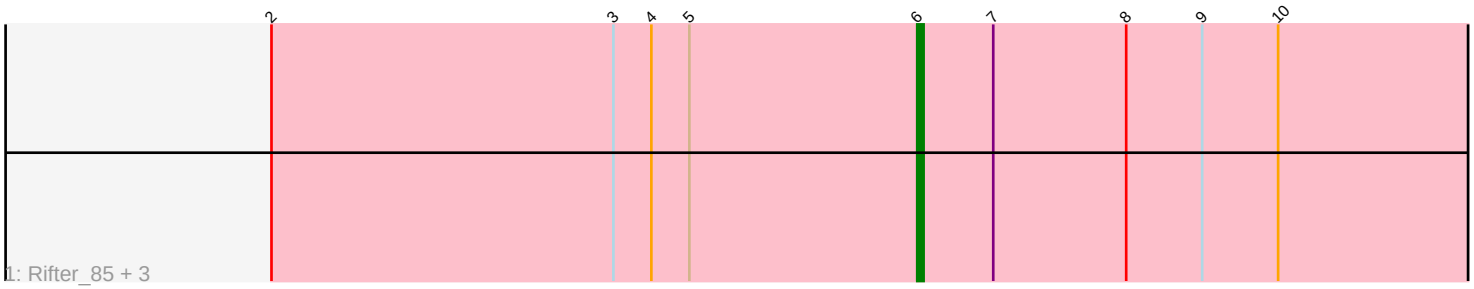
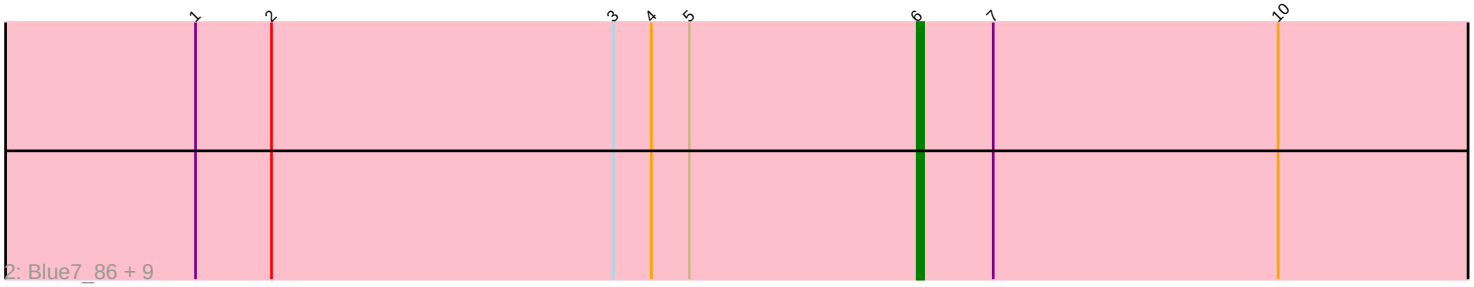
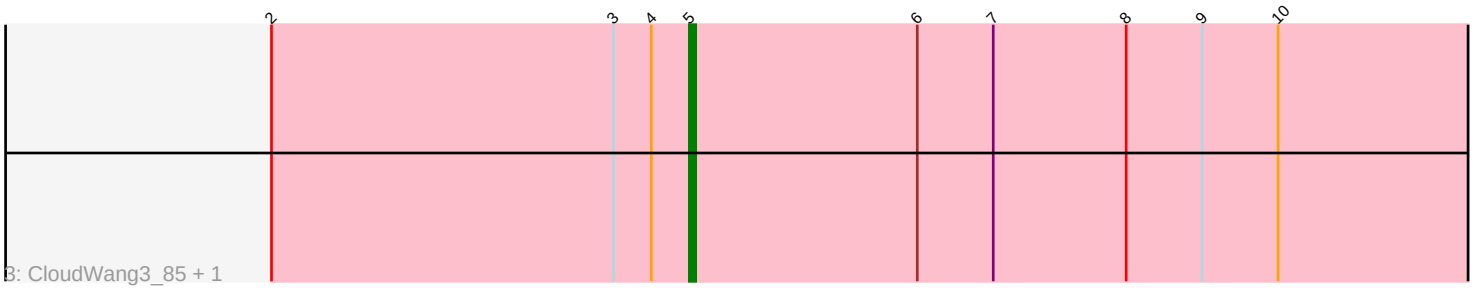
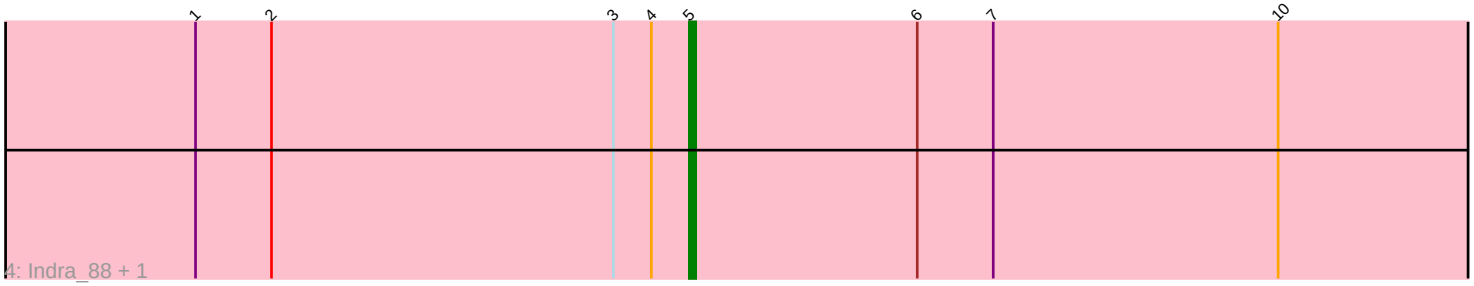
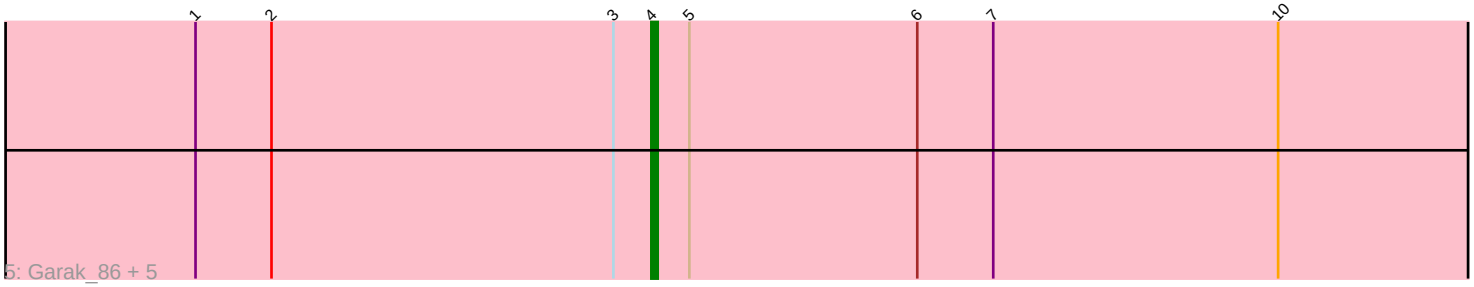
Pham 347987


2
3
4
5
6
7
8
9
10
1: Rifter_85 + 3


1
2
3
4
5
6
7
10
2: Blue7_86 + 9


2
3
4
5
6
7
8
9
10
3: CloudWang3_85 + 1


1
2
3
4
5
6
7
10
4: Indra_88 + 1


1
2
3
4
5
6
7
10
5: Garak_86 + 5

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 347987 Report

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

Pham number 347987 has 24 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Rifter_85, Hexamo_84, Gladiator_81, Gruunaga_84
• Track 2 : Blue7_86, Koko_86, Wiks_84, Temprado_86, BlessJoy_85, Yokurt_84, Roksolana_85, WunderPhul_85, Lilbunny_84, Zulu_86
• Track 3 : CloudWang3_85, Hammer_85
• Track 4 : Indra_88, Tucker_85
• Track 5 : Garak_86, Helmet_87, Artemis2UCLA_84, ToneTone_82, Zaka_85, BennyP_85

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 14 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BlessJoy_85, Blue7_86, Gladiator_81, Gruunaga_84, Hexamo_84, Koko_86, Lilbunny_84, Rifter_85, Roksolana_85, Temprado_86, Wiks_84, WunderPhul_85, Yokurt_84, Zulu_86,

Genes that have the "Most Annotated" start but do not call it:
• Artemis2UCLA_84, BennyP_85, CloudWang3_85, Garak_86, Hammer_85, Helmet_87, Indra_88, ToneTone_82, Tucker_85, Zaka_85,

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

Summary by start number:

Start 4:
• Found in 24 of 24 (100.0%) of genes in pham
• Manual Annotations of this start: 5 of 23
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Artemis2UCLA_84 (A6), BennyP_85 (A6), Garak_86 (A6), Helmet_87 (A6), ToneTone_82 (A6), Zaka_85 (A6),

Start 5:
• Found in 24 of 24 (100.0%) of genes in pham
• Manual Annotations of this start: 4 of 23
• Called 16.7% of time when present
• Phage (with cluster) where this start called: CloudWang3_85 (A6), Hammer_85 (A6), Indra_88 (A6), Tucker_85 (A6),

Start 6:
• Found in 24 of 24 (100.0%) of genes in pham
• Manual Annotations of this start: 14 of 23
• Called 58.3% of time when present
• Phage (with cluster) where this start called: BlessJoy_85 (A6), Blue7_86 (A6), Gladiator_81 (A6), Gruunaga_84 (A6), Hexamo_84 (A6), Koko_86 (A6), Lilbunny_84 (A6), Rifter_85 (A6), Roksolana_85 (A6), Temprado_86 (A6), Wiks_84 (A6), WunderPhul_85 (A6), Yokurt_84 (A6), Zulu_86 (A6),

Summary by clusters:

There is one cluster represented in this pham: A6

Info for manual annotations of cluster A6:
•Start number 4 was manually annotated 5 times for cluster A6.
•Start number 5 was manually annotated 4 times for cluster A6.
•Start number 6 was manually annotated 14 times for cluster A6.

Gene Information:

Gene: Artemis2UCLA_84 Start: 45607, Stop: 45476, Start Num: 4
Candidate Starts for Artemis2UCLA_84:
(1, 45679), (2, 45667), (3, 45613), (Start: 4 @45607 has 5 MA's), (Start: 5 @45601 has 4 MA's), (Start: 6 @45565 has 14 MA's), (7, 45553), (10, 45508),

Gene: BennyP_85 Start: 45772, Stop: 45641, Start Num: 4
Candidate Starts for BennyP_85:
(1, 45844), (2, 45832), (3, 45778), (Start: 4 @45772 has 5 MA's), (Start: 5 @45766 has 4 MA's), (Start: 6 @45730 has 14 MA's), (7, 45718), (10, 45673),

Gene: BlessJoy_85 Start: 46086, Stop: 45997, Start Num: 6
Candidate Starts for BlessJoy_85:
(1, 46200), (2, 46188), (3, 46134), (Start: 4 @46128 has 5 MA's), (Start: 5 @46122 has 4 MA's), (Start: 6 @46086 has 14 MA's), (7, 46074), (10, 46029),

Gene: Blue7_86 Start: 45784, Stop: 45695, Start Num: 6
Candidate Starts for Blue7_86:
(1, 45898), (2, 45886), (3, 45832), (Start: 4 @45826 has 5 MA's), (Start: 5 @45820 has 4 MA's), (Start: 6 @45784 has 14 MA's), (7, 45772), (10, 45727),

Gene: CloudWang3_85 Start: 46130, Stop: 46005, Start Num: 5
Candidate Starts for CloudWang3_85:
(2, 46196), (3, 46142), (Start: 4 @46136 has 5 MA's), (Start: 5 @46130 has 4 MA's), (Start: 6 @46094 has 14 MA's), (7, 46082), (8, 46061), (9, 46049), (10, 46037),

Gene: Garak_86 Start: 46069, Stop: 45938, Start Num: 4
Candidate Starts for Garak_86:
(1, 46141), (2, 46129), (3, 46075), (Start: 4 @46069 has 5 MA's), (Start: 5 @46063 has 4 MA's), (Start: 6 @46027 has 14 MA's), (7, 46015), (10, 45970),

Gene: Gladiator_81 Start: 45750, Stop: 45661, Start Num: 6
Candidate Starts for Gladiator_81:
(2, 45852), (3, 45798), (Start: 4 @45792 has 5 MA's), (Start: 5 @45786 has 4 MA's), (Start: 6 @45750 has 14 MA's), (7, 45738), (8, 45717), (9, 45705), (10, 45693),

Gene: Gruunaga_84 Start: 45705, Stop: 45616, Start Num: 6
Candidate Starts for Gruunaga_84:
(2, 45807), (3, 45753), (Start: 4 @45747 has 5 MA's), (Start: 5 @45741 has 4 MA's), (Start: 6 @45705 has 14 MA's), (7, 45693), (8, 45672), (9, 45660), (10, 45648),

Gene: Hammer_85 Start: 45448, Stop: 45323, Start Num: 5
Candidate Starts for Hammer_85:
(2, 45514), (3, 45460), (Start: 4 @45454 has 5 MA's), (Start: 5 @45448 has 4 MA's), (Start: 6 @45412 has 14 MA's), (7, 45400), (8, 45379), (9, 45367), (10, 45355),

Gene: Helmet_87 Start: 46069, Stop: 45938, Start Num: 4
Candidate Starts for Helmet_87:
(1, 46141), (2, 46129), (3, 46075), (Start: 4 @46069 has 5 MA's), (Start: 5 @46063 has 4 MA's), (Start: 6 @46027 has 14 MA's), (7, 46015), (10, 45970),

Gene: Hexamo_84 Start: 45580, Stop: 45491, Start Num: 6
Candidate Starts for Hexamo_84:
(2, 45682), (3, 45628), (Start: 4 @45622 has 5 MA's), (Start: 5 @45616 has 4 MA's), (Start: 6 @45580 has 14 MA's), (7, 45568), (8, 45547), (9, 45535), (10, 45523),

Gene: Indra_88 Start: 46064, Stop: 45939, Start Num: 5
Candidate Starts for Indra_88:
(1, 46142), (2, 46130), (3, 46076), (Start: 4 @46070 has 5 MA's), (Start: 5 @46064 has 4 MA's), (Start: 6 @46028 has 14 MA's), (7, 46016), (10, 45971),

Gene: Koko_86 Start: 46417, Stop: 46328, Start Num: 6
Candidate Starts for Koko_86:
(1, 46531), (2, 46519), (3, 46465), (Start: 4 @46459 has 5 MA's), (Start: 5 @46453 has 4 MA's), (Start: 6 @46417 has 14 MA's), (7, 46405), (10, 46360),

Gene: Lilbunny_84 Start: 45659, Stop: 45570, Start Num: 6
Candidate Starts for Lilbunny_84:
(1, 45773), (2, 45761), (3, 45707), (Start: 4 @45701 has 5 MA's), (Start: 5 @45695 has 4 MA's), (Start: 6 @45659 has 14 MA's), (7, 45647), (10, 45602),

Gene: Rifter_85 Start: 45207, Stop: 45118, Start Num: 6
Candidate Starts for Rifter_85:
(2, 45309), (3, 45255), (Start: 4 @45249 has 5 MA's), (Start: 5 @45243 has 4 MA's), (Start: 6 @45207 has 14 MA's), (7, 45195), (8, 45174), (9, 45162), (10, 45150),

Gene: Roksolana_85 Start: 45923, Stop: 45834, Start Num: 6
Candidate Starts for Roksolana_85:

(1, 46037), (2, 46025), (3, 45971), (Start: 4 @45965 has 5 MA's), (Start: 5 @45959 has 4 MA's), (Start: 6 @45923 has 14 MA's), (7, 45911), (10, 45866),

Gene: Temprado_86 Start: 46027, Stop: 45938, Start Num: 6
Candidate Starts for Temprado_86:
(1, 46141), (2, 46129), (3, 46075), (Start: 4 @46069 has 5 MA's), (Start: 5 @46063 has 4 MA's), (Start: 6 @46027 has 14 MA's), (7, 46015), (10, 45970),

Gene: ToneTone_82 Start: 45629, Stop: 45498, Start Num: 4
Candidate Starts for ToneTone_82:
(1, 45701), (2, 45689), (3, 45635), (Start: 4 @45629 has 5 MA's), (Start: 5 @45623 has 4 MA's), (Start: 6 @45587 has 14 MA's), (7, 45575), (10, 45530),

Gene: Tucker_85 Start: 45826, Stop: 45701, Start Num: 5
Candidate Starts for Tucker_85:
(1, 45904), (2, 45892), (3, 45838), (Start: 4 @45832 has 5 MA's), (Start: 5 @45826 has 4 MA's), (Start: 6 @45790 has 14 MA's), (7, 45778), (10, 45733),

Gene: Wiks_84 Start: 45658, Stop: 45569, Start Num: 6
Candidate Starts for Wiks_84:
(1, 45772), (2, 45760), (3, 45706), (Start: 4 @45700 has 5 MA's), (Start: 5 @45694 has 4 MA's), (Start: 6 @45658 has 14 MA's), (7, 45646), (10, 45601),

Gene: WunderPhul_85 Start: 45656, Stop: 45567, Start Num: 6
Candidate Starts for WunderPhul_85:
(1, 45770), (2, 45758), (3, 45704), (Start: 4 @45698 has 5 MA's), (Start: 5 @45692 has 4 MA's), (Start: 6 @45656 has 14 MA's), (7, 45644), (10, 45599),

Gene: Yokurt_84 Start: 45658, Stop: 45569, Start Num: 6
Candidate Starts for Yokurt_84:
(1, 45772), (2, 45760), (3, 45706), (Start: 4 @45700 has 5 MA's), (Start: 5 @45694 has 4 MA's), (Start: 6 @45658 has 14 MA's), (7, 45646), (10, 45601),

Gene: Zaka_85 Start: 45700, Stop: 45569, Start Num: 4
Candidate Starts for Zaka_85:
(1, 45772), (2, 45760), (3, 45706), (Start: 4 @45700 has 5 MA's), (Start: 5 @45694 has 4 MA's), (Start: 6 @45658 has 14 MA's), (7, 45646), (10, 45601),

Gene: Zulu_86 Start: 46036, Stop: 45947, Start Num: 6
Candidate Starts for Zulu_86:
(1, 46150), (2, 46138), (3, 46084), (Start: 4 @46078 has 5 MA's), (Start: 5 @46072 has 4 MA's), (Start: 6 @46036 has 14 MA's), (7, 46024), (10, 45979),