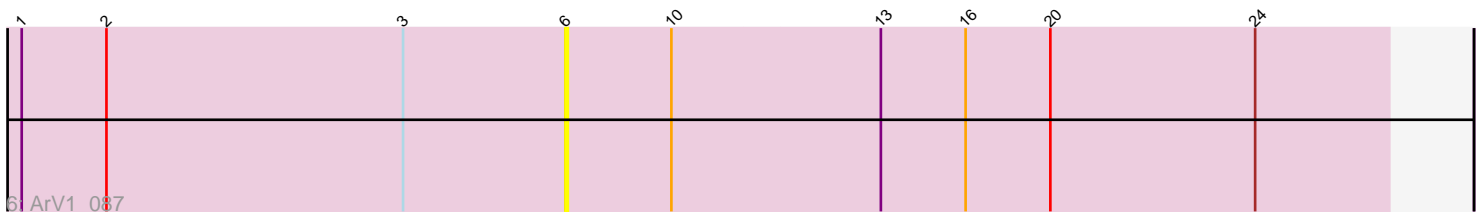
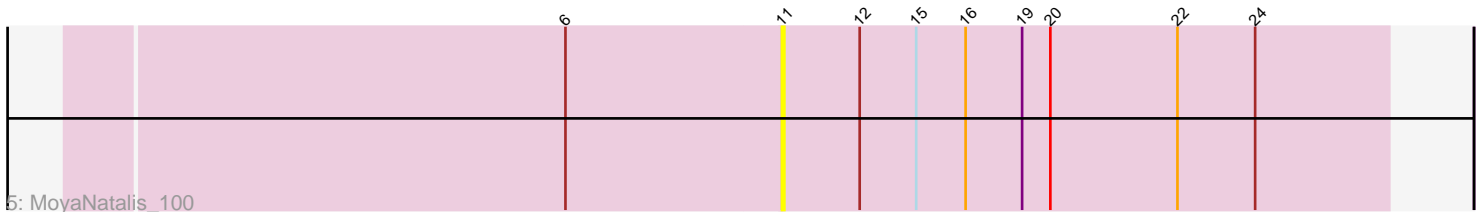
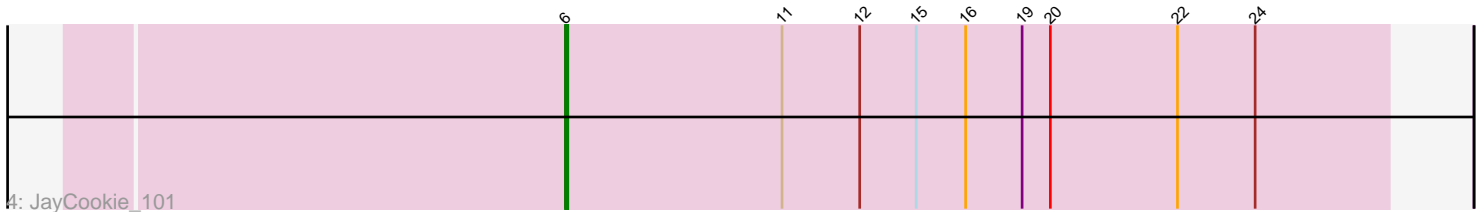
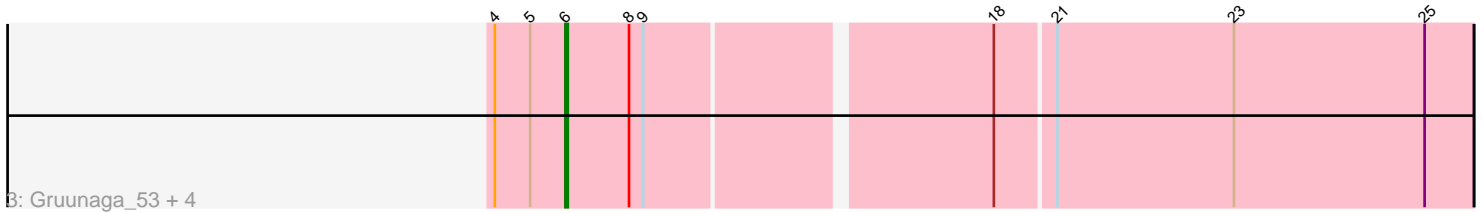
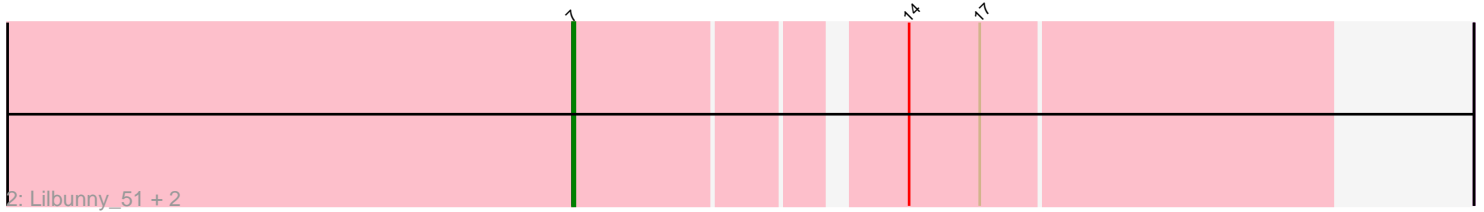
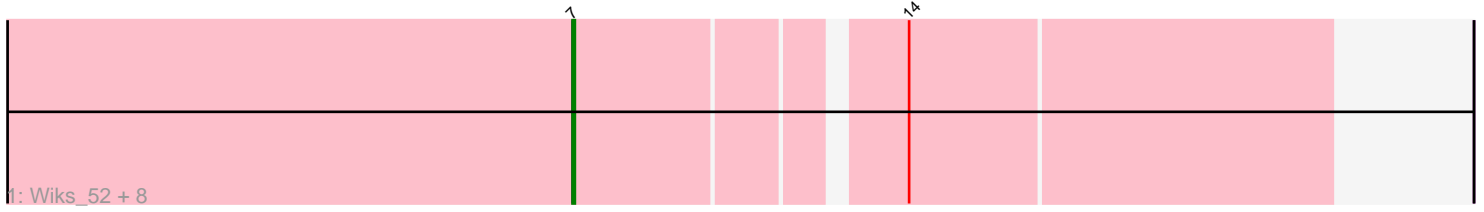


Pham 159424



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 159424 Report

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

Pham number 159424 has 21 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Wiks_52, WunderPhul_53, Garak_55, Indra_56, Helmet_55, ToneTone_50, Zulu_54, Yokurt_53, Zaka_53
- Track 2 : Lilbunny_51, Jeffabunny_53, Hexamo_53
- Track 3 : Gruunaga_53, CloudWang3_53, Artemis2UCLA_53, Koko_54, Roksolana_54
- Track 4 : JayCookie_101
- Track 5 : MoyaNatalis_100
- Track 6 : ArV1_087
- Track 7 : Conboy_99

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

The start number called the most often in the published annotations is 7, it was called in 9 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Garak_55, Helmet_55, Hexamo_53, Indra_56, Jeffabunny_53, Lilbunny_51, ToneTone_50, Wiks_52, WunderPhul_53, Yokurt_53, Zaka_53, Zulu_54,

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

-

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

- ArV1_087, Artemis2UCLA_53, CloudWang3_53, Conboy_99, Gruunaga_53, JayCookie_101, Koko_54, MoyaNatalis_100, Roksolana_54,

Summary by start number:

Start 6:

- Found in 9 of 21 (42.9%) of genes in pham
- Manual Annotations of this start: 7 of 16
- Called 88.9% of time when present
- Phage (with cluster) where this start called: ArV1_087 (AR), Artemis2UCLA_53 (A6), CloudWang3_53 (A6), Conboy_99 (AR), Gruunaga_53 (A6), JayCookie_101

(AR), Koko_54 (A6), Roksolana_54 (A6),

Start 7:

- Found in 12 of 21 (57.1%) of genes in pham
- Manual Annotations of this start: 9 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Garak_55 (A6), Helmet_55 (A6), Hexamo_53 (A6), Indra_56 (A6), Jeffabunny_53 (A6), Lilbunny_51 (A6), ToneTone_50 (A6), Wiks_52 (A6), WunderPhul_53 (A6), Yokurt_53 (A6), Zaka_53 (A6), Zulu_54 (A6),

Start 11:

- Found in 2 of 21 (9.5%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: MoyaNatalis_100 (AR),

Summary by clusters:

There are 2 clusters represented in this pham: AR, A6,

Info for manual annotations of cluster A6:

- Start number 6 was manually annotated 5 times for cluster A6.
- Start number 7 was manually annotated 9 times for cluster A6.

Info for manual annotations of cluster AR:

- Start number 6 was manually annotated 2 times for cluster AR.

Gene Information:

Gene: ArV1_087 Start: 62389, Stop: 62736, Start Num: 6

Candidate Starts for ArV1_087:

(1, 62158), (2, 62194), (3, 62320), (Start: 6 @62389 has 7 MA's), (10, 62434), (13, 62521), (16, 62557), (20, 62593), (24, 62680),

Gene: Artemis2UCLA_53 Start: 32856, Stop: 32485, Start Num: 6

Candidate Starts for Artemis2UCLA_53:

(4, 32886), (5, 32871), (Start: 6 @32856 has 7 MA's), (8, 32829), (9, 32823), (18, 32685), (21, 32661), (23, 32586), (25, 32505),

Gene: CloudWang3_53 Start: 32944, Stop: 32573, Start Num: 6

Candidate Starts for CloudWang3_53:

(4, 32974), (5, 32959), (Start: 6 @32944 has 7 MA's), (8, 32917), (9, 32911), (18, 32773), (21, 32749), (23, 32674), (25, 32593),

Gene: Conboy_99 Start: 63527, Stop: 63874, Start Num: 6

Candidate Starts for Conboy_99:

(3, 63458), (Start: 6 @63527 has 7 MA's), (13, 63659), (15, 63674), (16, 63695), (20, 63731), (22, 63785), (24, 63818),

Gene: Garak_55 Start: 33226, Stop: 32924, Start Num: 7

Candidate Starts for Garak_55:
(Start: 7 @33226 has 9 MA's), (14, 33100),

Gene: Gruunaga_53 Start: 33147, Stop: 32776, Start Num: 6
Candidate Starts for Gruunaga_53:
(4, 33177), (5, 33162), (Start: 6 @33147 has 7 MA's), (8, 33120), (9, 33114), (18, 32976), (21, 32952),
(23, 32877), (25, 32796),

Gene: Helmet_55 Start: 33226, Stop: 32924, Start Num: 7
Candidate Starts for Helmet_55:
(Start: 7 @33226 has 9 MA's), (14, 33100),

Gene: Hexamo_53 Start: 32856, Stop: 32554, Start Num: 7
Candidate Starts for Hexamo_53:
(Start: 7 @32856 has 9 MA's), (14, 32730), (17, 32700),

Gene: Indra_56 Start: 33227, Stop: 32925, Start Num: 7
Candidate Starts for Indra_56:
(Start: 7 @33227 has 9 MA's), (14, 33101),

Gene: JayCookie_101 Start: 64271, Stop: 64618, Start Num: 6
Candidate Starts for JayCookie_101:
(Start: 6 @64271 has 7 MA's), (11, 64361), (12, 64394), (15, 64418), (16, 64439), (19, 64463), (20,
64475), (22, 64529), (24, 64562),

Gene: Jeffabunny_53 Start: 32883, Stop: 32581, Start Num: 7
Candidate Starts for Jeffabunny_53:
(Start: 7 @32883 has 9 MA's), (14, 32757), (17, 32727),

Gene: Koko_54 Start: 33284, Stop: 32913, Start Num: 6
Candidate Starts for Koko_54:
(4, 33314), (5, 33299), (Start: 6 @33284 has 7 MA's), (8, 33257), (9, 33251), (18, 33113), (21, 33089),
(23, 33014), (25, 32933),

Gene: Lilbunny_51 Start: 32857, Stop: 32555, Start Num: 7
Candidate Starts for Lilbunny_51:
(Start: 7 @32857 has 9 MA's), (14, 32731), (17, 32701),

Gene: MoyaNatalis_100 Start: 63807, Stop: 64064, Start Num: 11
Candidate Starts for MoyaNatalis_100:
(Start: 6 @63717 has 7 MA's), (11, 63807), (12, 63840), (15, 63864), (16, 63885), (19, 63909), (20,
63921), (22, 63975), (24, 64008),

Gene: Roksolana_54 Start: 33190, Stop: 32819, Start Num: 6
Candidate Starts for Roksolana_54:
(4, 33220), (5, 33205), (Start: 6 @33190 has 7 MA's), (8, 33163), (9, 33157), (18, 33019), (21, 32995),
(23, 32920), (25, 32839),

Gene: ToneTone_50 Start: 32786, Stop: 32484, Start Num: 7
Candidate Starts for ToneTone_50:
(Start: 7 @32786 has 9 MA's), (14, 32660),

Gene: Wiks_52 Start: 32857, Stop: 32555, Start Num: 7

Candidate Starts for Wiks_52:
(Start: 7 @32857 has 9 MA's), (14, 32731),

Gene: WunderPhul_53 Start: 32855, Stop: 32553, Start Num: 7
Candidate Starts for WunderPhul_53:
(Start: 7 @32855 has 9 MA's), (14, 32729),

Gene: Yokurt_53 Start: 32857, Stop: 32555, Start Num: 7
Candidate Starts for Yokurt_53:
(Start: 7 @32857 has 9 MA's), (14, 32731),

Gene: Zaka_53 Start: 32857, Stop: 32555, Start Num: 7
Candidate Starts for Zaka_53:
(Start: 7 @32857 has 9 MA's), (14, 32731),

Gene: Zulu_54 Start: 33235, Stop: 32933, Start Num: 7
Candidate Starts for Zulu_54:
(Start: 7 @33235 has 9 MA's), (14, 33109),