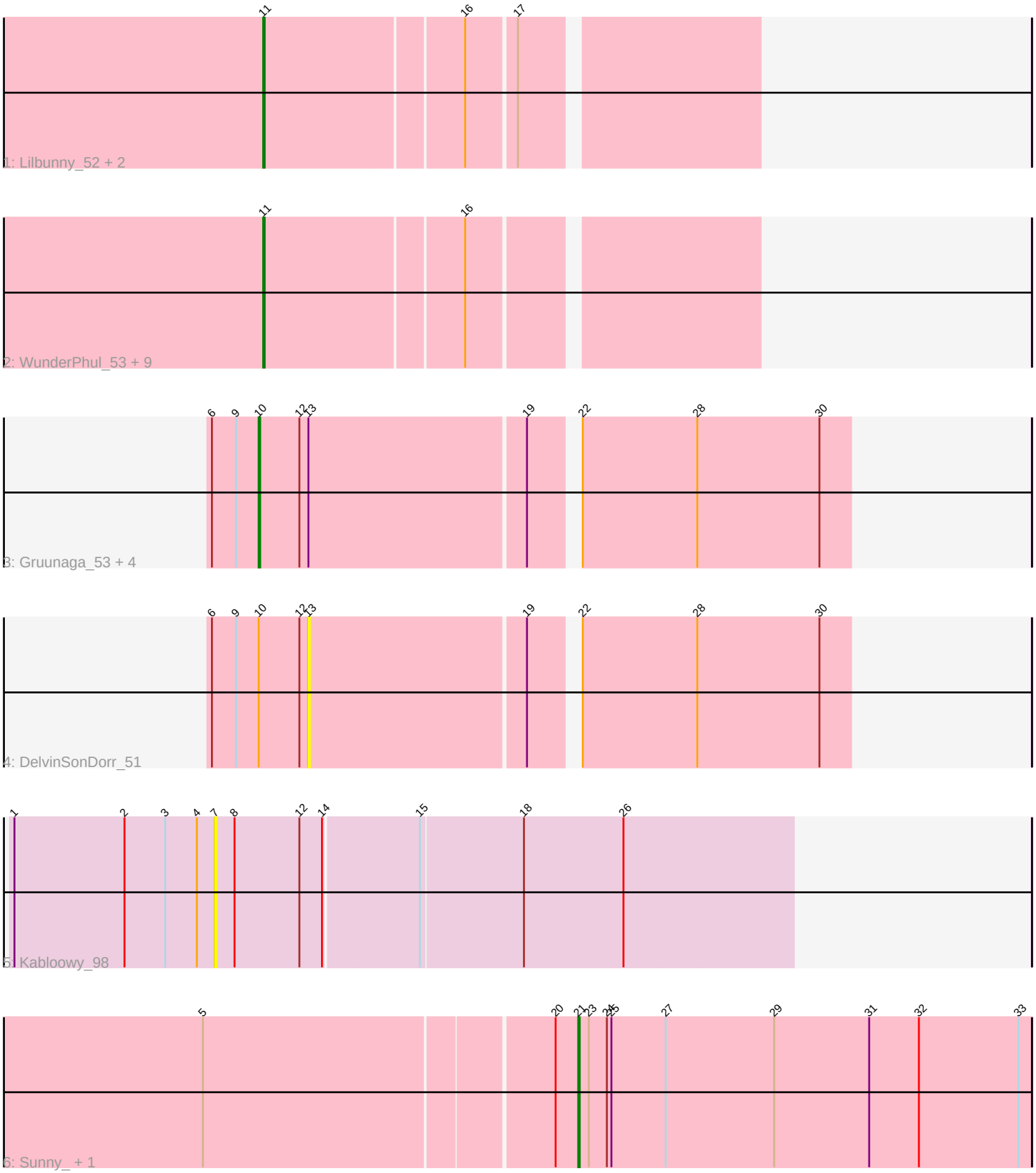
Pham 295071


11
16
17
1: Lilbunny_52 + 2
11
16
2: WunderPhul_53 + 9
6
9
10
12
13
19
22
28
30
3: Gruunaga_53 + 4
6
9
10
12
13
19
22
28
30
4: DelvinSonDorr_51
1
2
3
4
7
8
12
14
15
18
26
5: Kabloowy_98
5
20
21
23
24
25
27
29
31
32
33
6: Sunny_ + 1

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 295071 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295071 has 22 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Lilbunny_52, Jeffabunny_53, Hexamo_53
• Track 2 : WunderPhul_53, Garak_55, ToneTone_50, Zulu_54, Wiks_52, Temprado_54, Zaka_53, Indra_56, Yokurt_53, Helmet_55
• Track 3 : Gruunaga_53, CloudWang3_53, Artemis2UCLA_53, Roksolana_54, Koko_54
• Track 4 : DelvinSonDorr_51
• Track 5 : Kabloowy_98
• Track 6 : Sunny_, Merry_

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

The start number called the most often in the published annotations is 11, it was called in 12 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Garak_55, Helmet_55, Hexamo_53, Indra_56, Jeffabunny_53, Lilbunny_52, Temprado_54, 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:
• Artemis2UCLA_53, CloudWang3_53, DelvinSonDorr_51, Gruunaga_53, Kabloowy_98, Koko_54, Merry_, Roksolana_54, Sunny_,

Summary by start number:

Start 7:
• Found in 1 of 22 (4.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kabloowy_98 (AY),

Start 10:
• Found in 6 of 22 (27.3%) of genes in pham
• Manual Annotations of this start: 5 of 19
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Artemis2UCLA_53 (A6), CloudWang3_53 (A6), Gruunaga_53 (A6), Koko_54 (A6), Roksolana_54 (A6),

Start 11:
• Found in 13 of 22 (59.1%) of genes in pham
• Manual Annotations of this start: 12 of 19
• 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_52 (A6), Temprado_54 (A6), ToneTone_50 (A6), Wiks_52 (A6), WunderPhul_53 (A6), Yokurt_53 (A6), Zaka_53 (A6), Zulu_54 (A6),

Start 13:
• Found in 6 of 22 (27.3%) of genes in pham
• No Manual Annotations of this start.
• Called 16.7% of time when present
• Phage (with cluster) where this start called: DelvinSonDorr_51 (A6),

Start 21:
• Found in 2 of 22 (9.1%) of genes in pham
• Manual Annotations of this start: 2 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Merry_ (EC), Sunny_ (EC),

Summary by clusters:

There are 3 clusters represented in this pham: AY, EC, A6,

Info for manual annotations of cluster A6:
•Start number 10 was manually annotated 5 times for cluster A6.
•Start number 11 was manually annotated 12 times for cluster A6.

Info for manual annotations of cluster EC:
•Start number 21 was manually annotated 2 times for cluster EC.

Gene Information:

Gene: Artemis2UCLA_53 Start: 32856, Stop: 32485, Start Num: 10
Candidate Starts for Artemis2UCLA_53:
(6, 32886), (9, 32871), (Start: 10 @32856 has 5 MA's), (12, 32829), (13, 32823), (19, 32685), (22, 32661), (28, 32586), (30, 32505),

Gene: CloudWang3_53 Start: 32944, Stop: 32573, Start Num: 10
Candidate Starts for CloudWang3_53:
(6, 32974), (9, 32959), (Start: 10 @32944 has 5 MA's), (12, 32917), (13, 32911), (19, 32773), (22, 32749), (28, 32674), (30, 32593),

Gene: DelvinSonDorr_51 Start: 32982, Stop: 32644, Start Num: 13
Candidate Starts for DelvinSonDorr_51:
(6, 33045), (9, 33030), (Start: 10 @33015 has 5 MA's), (12, 32988), (13, 32982), (19, 32844), (22, 32820), (28, 32745), (30, 32664),

Gene: Garak_55 Start: 33226, Stop: 32924, Start Num: 11
Candidate Starts for Garak_55:
(Start: 11 @33226 has 12 MA's), (16, 33100),

Gene: Gruunaga_53 Start: 33147, Stop: 32776, Start Num: 10
Candidate Starts for Gruunaga_53:
(6, 33177), (9, 33162), (Start: 10 @33147 has 5 MA's), (12, 33120), (13, 33114), (19, 32976), (22, 32952), (28, 32877), (30, 32796),

Gene: Helmet_55 Start: 33226, Stop: 32924, Start Num: 11
Candidate Starts for Helmet_55:
(Start: 11 @33226 has 12 MA's), (16, 33100),

Gene: Hexamo_53 Start: 32856, Stop: 32554, Start Num: 11
Candidate Starts for Hexamo_53:
(Start: 11 @32856 has 12 MA's), (16, 32730), (17, 32700),

Gene: Indra_56 Start: 33227, Stop: 32925, Start Num: 11
Candidate Starts for Indra_56:
(Start: 11 @33227 has 12 MA's), (16, 33101),

Gene: Jeffabunny_53 Start: 32883, Stop: 32581, Start Num: 11
Candidate Starts for Jeffabunny_53:
(Start: 11 @32883 has 12 MA's), (16, 32757), (17, 32727),

Gene: Kabloowy_98 Start: 53150, Stop: 53521, Start Num: 7
Candidate Starts for Kabloowy_98:
(1, 53018), (2, 53090), (3, 53117), (4, 53138), (7, 53150), (8, 53162), (12, 53204), (14, 53219), (15, 53279), (18, 53345), (26, 53411),

Gene: Koko_54 Start: 33284, Stop: 32913, Start Num: 10
Candidate Starts for Koko_54:
(6, 33314), (9, 33299), (Start: 10 @33284 has 5 MA's), (12, 33257), (13, 33251), (19, 33113), (22, 33089), (28, 33014), (30, 32933),

Gene: Lilbunny_52 Start: 32857, Stop: 32555, Start Num: 11
Candidate Starts for Lilbunny_52:
(Start: 11 @32857 has 12 MA's), (16, 32731), (17, 32701),

Gene: Merry_ Start: 36632, Stop: 36931, Start Num: 21
Candidate Starts for Merry_:
(5, 36392), (20, 36617), (Start: 21 @36632 has 2 MA's), (23, 36638), (24, 36650), (25, 36653), (27, 36689), (29, 36761), (31, 36824), (32, 36857), (33, 36923),

Gene: Roksolana_54 Start: 33190, Stop: 32819, Start Num: 10
Candidate Starts for Roksolana_54:

(6, 33220), (9, 33205), (Start: 10 @33190 has 5 MA's), (12, 33163), (13, 33157), (19, 33019), (22, 32995), (28, 32920), (30, 32839),

Gene: Sunny_ Start: 36634, Stop: 36933, Start Num: 21
Candidate Starts for Sunny_:
(5, 36394), (20, 36619), (Start: 21 @36634 has 2 MA's), (23, 36640), (24, 36652), (25, 36655), (27, 36691), (29, 36763), (31, 36826), (32, 36859), (33, 36925),

Gene: Temprado_54 Start: 33226, Stop: 32924, Start Num: 11
Candidate Starts for Temprado_54:
(Start: 11 @33226 has 12 MA's), (16, 33100),

Gene: ToneTone_50 Start: 32786, Stop: 32484, Start Num: 11
Candidate Starts for ToneTone_50:
(Start: 11 @32786 has 12 MA's), (16, 32660),

Gene: Wiks_52 Start: 32857, Stop: 32555, Start Num: 11
Candidate Starts for Wiks_52:
(Start: 11 @32857 has 12 MA's), (16, 32731),

Gene: WunderPhul_53 Start: 32855, Stop: 32553, Start Num: 11
Candidate Starts for WunderPhul_53:
(Start: 11 @32855 has 12 MA's), (16, 32729),

Gene: Yokurt_53 Start: 32857, Stop: 32555, Start Num: 11
Candidate Starts for Yokurt_53:
(Start: 11 @32857 has 12 MA's), (16, 32731),

Gene: Zaka_53 Start: 32857, Stop: 32555, Start Num: 11
Candidate Starts for Zaka_53:
(Start: 11 @32857 has 12 MA's), (16, 32731),

Gene: Zulu_54 Start: 33235, Stop: 32933, Start Num: 11
Candidate Starts for Zulu_54:
(Start: 11 @33235 has 12 MA's), (16, 33109),