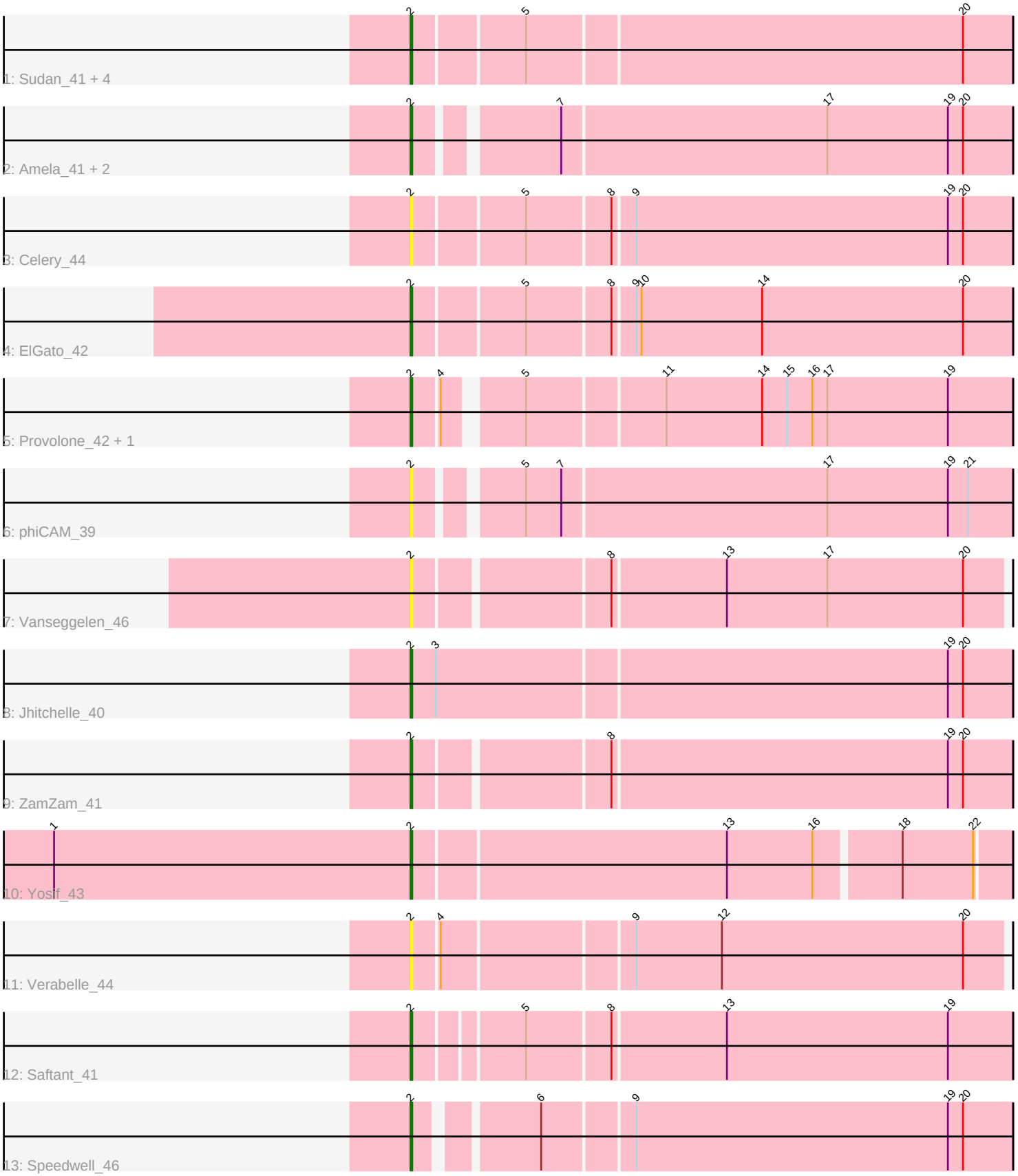
# Pham 296953


1: Sudan_41 + 4
2: Amela_41 + 2
3: Celery_44
4: ElGato_42
5: Provolone_42 + 1
6: phiCAM_39
7: Vanseggelen_46
8: Jhitchelle_40
9: ZamZam_41
10: Yoslf_43
11: Verabelle_44
12: Saftant_41
13: Speedwell_46

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 296953 Report

This analysis was run 04/25/26 on database version 644.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 296953 has 20 members, 5 are drafts.

Phages represented in each track:
- Track 1 : Sudan_41, Conan_42, Dexers_40, Alsaber_42, Kaine_41
- Track 2 : Amela_41, Verse_41, SunkenRoot_42
- Track 3 : Celery_44
- Track 4 : ElGato_42
- Track 5 : Provolone_42, Pavo_42
- Track 6 : phiCAM_39
- Track 7 : Vanseggelen_46
- Track 8 : Jhitchelle_40
- Track 9 : ZamZam_41
- Track 10 : Yosif_43
- Track 11 : Verabelle_44
- Track 12 : Saftant_41
- Track 13 : Speedwell_46

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

The start number called the most often in the published annotations is 2, it was called in 15 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Alsaber_42, Amela_41, Celery_44, Conan_42, Dexers_40, ElGato_42, Jhitchelle_40, Kaine_41, Pavo_42, Provolone_42, Saftant_41, Speedwell_46, Sudan_41, SunkenRoot_42, Vanseggelen_46, Verabelle_44, Verse_41, Yosif_43, ZamZam_41, phiCAM_39,

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

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

**Summary by start number:**

Start 2:
• Found in 20 of 20 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 15 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alsaber_42 (BD3), Amela_41 (BD3), Celery_44 (BD3), Conan_42 (BD3), Dexers_40 (BD3), ElGato_42 (BD3), Jhitchelle_40 (BD3), Kaine_41 (BD3), Pavo_42 (BD3), Provolone_42 (BD3), Saftant_41 (BD3), Speedwell_46 (BD3), Sudan_41 (BD3), SunkenRoot_42 (BD3), Vanseggelen_46 (BD3), Verabelle_44 (BD3), Verse_41 (BD3), Yosif_43 (BD3), ZamZam_41 (BD3), phiCAM_39 (BD3),

**Summary by clusters:**

There is one cluster represented in this pham: BD3

Info for manual annotations of cluster BD3:
•Start number 2 was manually annotated 15 times for cluster BD3.

***Gene Information:***

Gene: Alsaber_42 Start: 30369, Stop: 30716, Start Num: 2
Candidate Starts for Alsaber_42:
(Start: 2 @30369 has 15 MA's), (5, 30432), (20, 30687),

Gene: Amela_41 Start: 31176, Stop: 31517, Start Num: 2
Candidate Starts for Amela_41:
(Start: 2 @31176 has 15 MA's), (7, 31251), (17, 31407), (19, 31479), (20, 31488),

Gene: Celery_44 Start: 30302, Stop: 30649, Start Num: 2
Candidate Starts for Celery_44:
(Start: 2 @30302 has 15 MA's), (5, 30365), (8, 30413), (9, 30425), (19, 30611), (20, 30620),

Gene: Conan_42 Start: 30263, Stop: 30610, Start Num: 2
Candidate Starts for Conan_42:
(Start: 2 @30263 has 15 MA's), (5, 30326), (20, 30581),

Gene: Dexers_40 Start: 30287, Stop: 30634, Start Num: 2
Candidate Starts for Dexers_40:
(Start: 2 @30287 has 15 MA's), (5, 30350), (20, 30605),

Gene: ElGato_42 Start: 29927, Stop: 30274, Start Num: 2
Candidate Starts for ElGato_42:
(Start: 2 @29927 has 15 MA's), (5, 29990), (8, 30038), (9, 30050), (10, 30053), (14, 30125), (20, 30245),

Gene: Jhitchelle_40 Start: 29800, Stop: 30153, Start Num: 2
Candidate Starts for Jhitchelle_40:
(Start: 2 @29800 has 15 MA's), (3, 29815), (19, 30115), (20, 30124),

Gene: Kaine_41 Start: 30078, Stop: 30425, Start Num: 2
Candidate Starts for Kaine_41:
(Start: 2 @30078 has 15 MA's), (5, 30141), (20, 30396),

Gene: Pavo_42 Start: 30536, Stop: 30874, Start Num: 2
Candidate Starts for Pavo_42:
(Start: 2 @30536 has 15 MA's), (4, 30551), (5, 30590), (11, 30668), (14, 30725), (15, 30740), (16, 30755), (17, 30764), (19, 30836),

Gene: Provolone_42 Start: 29918, Stop: 30256, Start Num: 2
Candidate Starts for Provolone_42:
(Start: 2 @29918 has 15 MA's), (4, 29933), (5, 29972), (11, 30050), (14, 30107), (15, 30122), (16, 30137), (17, 30146), (19, 30218),

Gene: Saftant_41 Start: 30490, Stop: 30834, Start Num: 2
Candidate Starts for Saftant_41:
(Start: 2 @30490 has 15 MA's), (5, 30550), (8, 30598), (13, 30664), (19, 30796),

Gene: Speedwell_46 Start: 31786, Stop: 32124, Start Num: 2
Candidate Starts for Speedwell_46:
(Start: 2 @31786 has 15 MA's), (6, 31849), (9, 31900), (19, 32086), (20, 32095),

Gene: Sudan_41 Start: 30365, Stop: 30712, Start Num: 2
Candidate Starts for Sudan_41:
(Start: 2 @30365 has 15 MA's), (5, 30428), (20, 30683),

Gene: SunkenRoot_42 Start: 30976, Stop: 31317, Start Num: 2
Candidate Starts for SunkenRoot_42:
(Start: 2 @30976 has 15 MA's), (7, 31051), (17, 31207), (19, 31279), (20, 31288),

Gene: Vanseggelen_46 Start: 30019, Stop: 30357, Start Num: 2
Candidate Starts for Vanseggelen_46:
(Start: 2 @30019 has 15 MA's), (8, 30127), (13, 30193), (17, 30253), (20, 30334),

Gene: Verabelle_44 Start: 30428, Stop: 30769, Start Num: 2
Candidate Starts for Verabelle_44:
(Start: 2 @30428 has 15 MA's), (4, 30443), (9, 30551), (12, 30602), (20, 30746),

Gene: Verse_41 Start: 31170, Stop: 31511, Start Num: 2
Candidate Starts for Verse_41:
(Start: 2 @31170 has 15 MA's), (7, 31245), (17, 31401), (19, 31473), (20, 31482),

Gene: Yosif_43 Start: 30966, Stop: 31310, Start Num: 2
Candidate Starts for Yosif_43:
(1, 30753), (Start: 2 @30966 has 15 MA's), (13, 31149), (16, 31200), (18, 31248), (22, 31290),

Gene: ZamZam_41 Start: 30463, Stop: 30807, Start Num: 2
Candidate Starts for ZamZam_41:
(Start: 2 @30463 has 15 MA's), (8, 30571), (19, 30769), (20, 30778),

Gene: phiCAM_39 Start: 32321, Stop: 32662, Start Num: 2
Candidate Starts for phiCAM_39:

(Start: 2 @32321 has 15 MA's), (5, 32375), (7, 32396), (17, 32552), (19, 32624), (21, 32636),