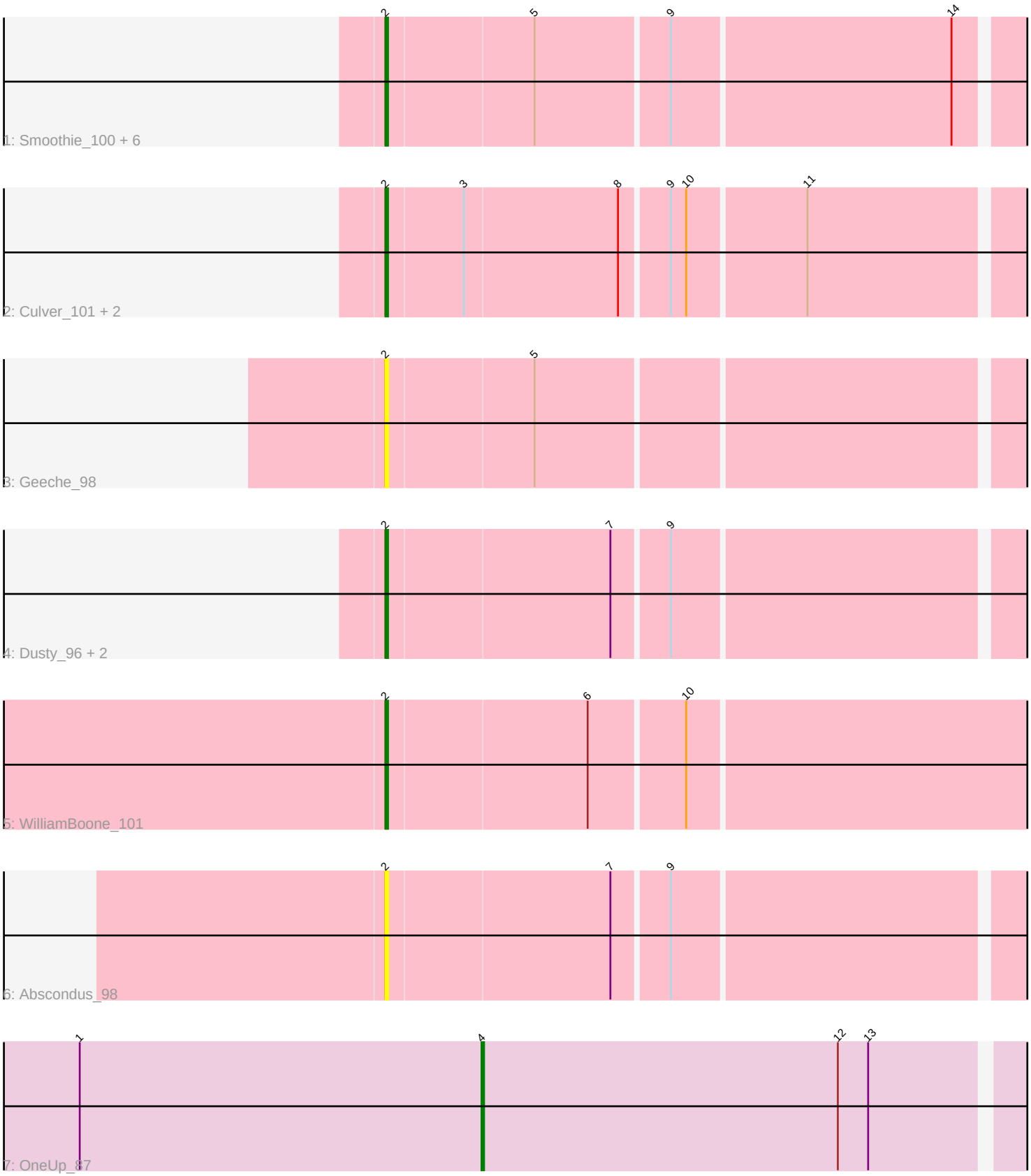
# Pham 200683


2
5
9
14
1: Smoothie_100 + 6
2
3
8
9
10
11
2: Culver_101 + 2
2
5
3: Geeche_98
2
7
9
4: Dusty_96 + 2
2
6
10
5: WilliamBoone_101
2
7
9
6: Abscondus_98
1
4
12
13
7: OneUp_87

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 200683 Report

This analysis was run 01/18/25 on database version 583.

Pham number 200683 has 17 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Smoothie_100, Engineer_100, Cucurbita_100, PhinkBoden_98, Toniann_101, Bachita_101, Lozinak_99
• Track 2 : Culver_101, Norvs_101, ClubL_100
• Track 3 : Geeche_98
• Track 4 : Dusty_96, Aphelion_100, Miskis_97
• Track 5 : WilliamBoone_101
• Track 6 : Abscondus_98
• Track 7 : OneUp_87

***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 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abscondus_98, Aphelion_100, Bachita_101, ClubL_100, Cucurbita_100, Culver_101, Dusty_96, Engineer_100, Geeche_98, Lozinak_99, Miskis_97, Norvs_101, PhinkBoden_98, Smoothie_100, Toniann_101, WilliamBoone_101,

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

Genes that do not have the "Most Annotated" start:
• OneUp_87,

**Summary by start number:**

Start 2:
• Found in 16 of 17 ( 94.1% ) of genes in pham
• Manual Annotations of this start: 12 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abscondus_98 (CQ1), Aphelion_100 (CQ1), Bachita_101 (CQ1), ClubL_100 (CQ1), Cucurbita_100 (CQ1), Culver_101 (CQ1), Dusty_96 (CQ1), Engineer_100 (CQ1), Geeche_98 (CQ1), Lozinak_99 (CQ1),

Miskis_97 (CQ1), Norvs_101 (CQ1), PhinkBoden_98 (CQ1), Smoothie_100 (CQ1), Toniann_101 (CQ1), WilliamBoone_101 (CQ1),

Start 4:
• Found in 1 of 17 ( 5.9% ) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: OneUp_87 (CQ2),

**Summary by clusters:**

There are 2 clusters represented in this pham: CQ2, CQ1,

Info for manual annotations of cluster CQ1:
•Start number 2 was manually annotated 12 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 4 was manually annotated 1 time for cluster CQ2.

***Gene Information:***

Gene: Abscondus_98 Start: 59189, Stop: 59440, Start Num: 2
Candidate Starts for Abscondus_98:
(Start: 2 @59189 has 12 MA's), (7, 59276), (9, 59297),

Gene: Aphelion_100 Start: 60742, Stop: 60993, Start Num: 2
Candidate Starts for Aphelion_100:
(Start: 2 @60742 has 12 MA's), (7, 60829), (9, 60850),

Gene: Bachita_101 Start: 60400, Stop: 60651, Start Num: 2
Candidate Starts for Bachita_101:
(Start: 2 @60400 has 12 MA's), (5, 60457), (9, 60508), (14, 60616),

Gene: ClubL_100 Start: 59332, Stop: 59583, Start Num: 2
Candidate Starts for ClubL_100:
(Start: 2 @59332 has 12 MA's), (3, 59362), (8, 59422), (9, 59440), (10, 59446), (11, 59491),

Gene: Cucurbita_100 Start: 60907, Stop: 61158, Start Num: 2
Candidate Starts for Cucurbita_100:
(Start: 2 @60907 has 12 MA's), (5, 60964), (9, 61015), (14, 61123),

Gene: Culver_101 Start: 59232, Stop: 59483, Start Num: 2
Candidate Starts for Culver_101:
(Start: 2 @59232 has 12 MA's), (3, 59262), (8, 59322), (9, 59340), (10, 59346), (11, 59391),

Gene: Dusty_96 Start: 59248, Stop: 59499, Start Num: 2
Candidate Starts for Dusty_96:
(Start: 2 @59248 has 12 MA's), (7, 59335), (9, 59356),

Gene: Engineer_100 Start: 60373, Stop: 60624, Start Num: 2
Candidate Starts for Engineer_100:

(Start: 2 @60373 has 12 MA's), (5, 60430), (9, 60481), (14, 60589),

Gene: Geeche_98 Start: 59471, Stop: 59722, Start Num: 2
Candidate Starts for Geeche_98:
(Start: 2 @59471 has 12 MA's), (5, 59528),

Gene: Lozinak_99 Start: 60211, Stop: 60462, Start Num: 2
Candidate Starts for Lozinak_99:
(Start: 2 @60211 has 12 MA's), (5, 60268), (9, 60319), (14, 60427),

Gene: Miskis_97 Start: 58911, Stop: 59162, Start Num: 2
Candidate Starts for Miskis_97:
(Start: 2 @58911 has 12 MA's), (7, 58998), (9, 59019),

Gene: Norvs_101 Start: 60240, Stop: 60491, Start Num: 2
Candidate Starts for Norvs_101:
(Start: 2 @60240 has 12 MA's), (3, 60270), (8, 60330), (9, 60348), (10, 60354), (11, 60399),

Gene: OneUp_87 Start: 56617, Stop: 56829, Start Num: 4
Candidate Starts for OneUp_87:
(1, 56458), (Start: 4 @56617 has 1 MA's), (12, 56758), (13, 56770),

Gene: PhinkBoden_98 Start: 60001, Stop: 60252, Start Num: 2
Candidate Starts for PhinkBoden_98:
(Start: 2 @60001 has 12 MA's), (5, 60058), (9, 60109), (14, 60217),

Gene: Smoothie_100 Start: 60211, Stop: 60462, Start Num: 2
Candidate Starts for Smoothie_100:
(Start: 2 @60211 has 12 MA's), (5, 60268), (9, 60319), (14, 60427),

Gene: Toniann_101 Start: 60180, Stop: 60431, Start Num: 2
Candidate Starts for Toniann_101:
(Start: 2 @60180 has 12 MA's), (5, 60237), (9, 60288), (14, 60396),

Gene: WilliamBoone_101 Start: 58943, Stop: 59200, Start Num: 2
Candidate Starts for WilliamBoone_101:
(Start: 2 @58943 has 12 MA's), (6, 59021), (10, 59057),