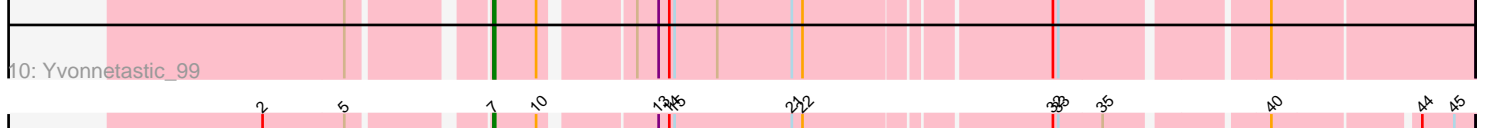
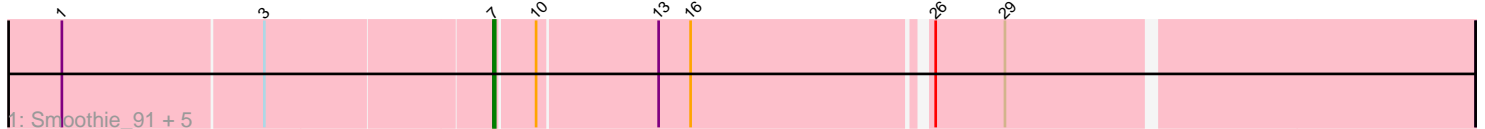


Pham 309297



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 309297 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309297 has 21 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Smoothie_91, PhinkBoden_89, Cucurbita_91, Bachita_92, Engineer_91, Lozinak_90
- Track 2 : WilliamBoone_89
- Track 3 : Norvs_90, Aphelion_89, Toniann_90
- Track 4 : ClubL_90
- Track 5 : Culver_91
- Track 6 : Miskis_82, Dusty_87, Abscondus_89
- Track 7 : Geeche_88
- Track 8 : OneUp_80
- Track 9 : Cardigan_103
- Track 10 : Yvonnetastic_99
- Track 11 : JonJames_101
- Track 12 : JonJames_102

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 18 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_89, Aphelion_89, Bachita_92, Cardigan_103, ClubL_90, Cucurbita_91, Culver_91, Dusty_87, Engineer_91, Geeche_88, JonJames_101, JonJames_102, Lozinak_90, Miskis_82, Norvs_90, PhinkBoden_89, Smoothie_91, Toniann_90, WilliamBoone_89, Yvonnetastic_99,

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

-

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

- OneUp_80,

Summary by start number:

Start 7:

- Found in 20 of 21 (95.2%) of genes in pham
- Manual Annotations of this start: 18 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_89 (CQ1), Aphelion_89 (CQ1), Bachita_92 (CQ1), Cardigan_103 (DD), ClubL_90 (CQ1), Cucurbita_91 (CQ1), Culver_91 (CQ1), Dusty_87 (CQ1), Engineer_91 (CQ1), Geeche_88 (CQ1), JonJames_101 (DD), JonJames_102 (DD), Lozinak_90 (CQ1), Miskis_82 (CQ1), Norvs_90 (CQ1), PhinkBoden_89 (CQ1), Smoothie_91 (CQ1), Toniann_90 (CQ1), WilliamBoone_89 (CQ1), Yvonnestic_99 (DD),

Start 8:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: OneUp_80 (CQ2),

Summary by clusters:

There are 3 clusters represented in this pham: CQ2, CQ1, DD,

Info for manual annotations of cluster CQ1:

- Start number 7 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 8 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DD:

- Start number 7 was manually annotated 3 times for cluster DD.

Gene Information:

Gene: Abscondus_89 Start: 55275, Stop: 55799, Start Num: 7

Candidate Starts for Abscondus_89:

(3, 55152), (Start: 7 @55275 has 18 MA's), (10, 55296), (13, 55362), (16, 55380), (26, 55506), (29, 55545),

Gene: Aphelion_89 Start: 55871, Stop: 56395, Start Num: 7

Candidate Starts for Aphelion_89:

(Start: 7 @55871 has 18 MA's), (10, 55892), (13, 55958), (16, 55976), (26, 56102), (29, 56141),

Gene: Bachita_92 Start: 56320, Stop: 56844, Start Num: 7

Candidate Starts for Bachita_92:

(1, 56086), (3, 56197), (Start: 7 @56320 has 18 MA's), (10, 56341), (13, 56407), (16, 56425), (26, 56551), (29, 56590),

Gene: Cardigan_103 Start: 61003, Stop: 61509, Start Num: 7

Candidate Starts for Cardigan_103:

(5, 60937), (Start: 7 @61003 has 18 MA's), (10, 61024), (13, 61081), (14, 61087), (15, 61090), (21, 61156), (22, 61162), (32, 61291), (33, 61294), (35, 61318), (40, 61399),

Gene: ClubL_90 Start: 55006, Stop: 55530, Start Num: 7

Candidate Starts for ClubL_90:

(3, 54883), (Start: 7 @55006 has 18 MA's), (10, 55027), (13, 55093), (16, 55111), (26, 55237), (29, 55276), (41, 55423),

Gene: Cucurbita_91 Start: 56827, Stop: 57351, Start Num: 7

Candidate Starts for Cucurbita_91:

(1, 56593), (3, 56704), (Start: 7 @56827 has 18 MA's), (10, 56848), (13, 56914), (16, 56932), (26, 57058), (29, 57097),

Gene: Culver_91 Start: 54897, Stop: 55427, Start Num: 7

Candidate Starts for Culver_91:

(1, 54693), (3, 54780), (6, 54849), (Start: 7 @54897 has 18 MA's), (10, 54918), (13, 54984), (16, 55002), (24, 55089), (26, 55128), (36, 55242), (37, 55251), (39, 55293),

Gene: Dusty_87 Start: 54522, Stop: 55046, Start Num: 7

Candidate Starts for Dusty_87:

(3, 54399), (Start: 7 @54522 has 18 MA's), (10, 54543), (13, 54609), (16, 54627), (26, 54753), (29, 54792),

Gene: Engineer_91 Start: 56293, Stop: 56817, Start Num: 7

Candidate Starts for Engineer_91:

(1, 56059), (3, 56170), (Start: 7 @56293 has 18 MA's), (10, 56314), (13, 56380), (16, 56398), (26, 56524), (29, 56563),

Gene: Geeche_88 Start: 55358, Stop: 55882, Start Num: 7

Candidate Starts for Geeche_88:

(3, 55235), (Start: 7 @55358 has 18 MA's), (10, 55379), (13, 55445), (16, 55463), (26, 55589), (29, 55628), (41, 55775),

Gene: JonJames_101 Start: 61196, Stop: 61699, Start Num: 7

Candidate Starts for JonJames_101:

(2, 61085), (5, 61130), (Start: 7 @61196 has 18 MA's), (10, 61220), (13, 61277), (14, 61283), (15, 61286), (21, 61352), (22, 61358), (32, 61487), (33, 61490), (35, 61514), (40, 61595), (44, 61670), (45, 61688),

Gene: JonJames_102 Start: 61696, Stop: 62193, Start Num: 7

Candidate Starts for JonJames_102:

(Start: 7 @61696 has 18 MA's), (9, 61714), (13, 61780), (14, 61786), (15, 61789), (18, 61837), (19, 61843), (22, 61861), (24, 61885), (33, 61999), (35, 62011), (40, 62092),

Gene: Lozinak_90 Start: 56131, Stop: 56655, Start Num: 7

Candidate Starts for Lozinak_90:

(1, 55897), (3, 56008), (Start: 7 @56131 has 18 MA's), (10, 56152), (13, 56218), (16, 56236), (26, 56362), (29, 56401),

Gene: Miskis_82 Start: 54040, Stop: 54564, Start Num: 7

Candidate Starts for Miskis_82:

(3, 53917), (Start: 7 @54040 has 18 MA's), (10, 54061), (13, 54127), (16, 54145), (26, 54271), (29, 54310),

Gene: Norvs_90 Start: 55516, Stop: 56040, Start Num: 7

Candidate Starts for Norvs_90:

(Start: 7 @55516 has 18 MA's), (10, 55537), (13, 55603), (16, 55621), (26, 55747), (29, 55786),

Gene: OneUp_80 Start: 53538, Stop: 54050, Start Num: 8

Candidate Starts for OneUp_80:

(4, 53430), (Start: 8 @53538 has 1 MA's), (13, 53607), (20, 53673), (25, 53712), (28, 53769), (30, 53805), (31, 53823), (34, 53841), (38, 53907), (42, 53967), (43, 53976),

Gene: PhinkBoden_89 Start: 55921, Stop: 56445, Start Num: 7

Candidate Starts for PhinkBoden_89:

(1, 55687), (3, 55798), (Start: 7 @55921 has 18 MA's), (10, 55942), (13, 56008), (16, 56026), (26, 56152), (29, 56191),

Gene: Smoothie_91 Start: 56131, Stop: 56655, Start Num: 7

Candidate Starts for Smoothie_91:

(1, 55897), (3, 56008), (Start: 7 @56131 has 18 MA's), (10, 56152), (13, 56218), (16, 56236), (26, 56362), (29, 56401),

Gene: Toniann_90 Start: 55459, Stop: 55983, Start Num: 7

Candidate Starts for Toniann_90:

(Start: 7 @55459 has 18 MA's), (10, 55480), (13, 55546), (16, 55564), (26, 55690), (29, 55729),

Gene: WilliamBoone_89 Start: 54216, Stop: 54752, Start Num: 7

Candidate Starts for WilliamBoone_89:

(3, 54090), (Start: 7 @54216 has 18 MA's), (12, 54303), (13, 54306), (16, 54324), (23, 54408), (26, 54450), (27, 54453), (29, 54489),

Gene: Yvonnetastic_99 Start: 58738, Stop: 59247, Start Num: 7

Candidate Starts for Yvonnetastic_99:

(5, 58672), (Start: 7 @58738 has 18 MA's), (10, 58762), (11, 58807), (13, 58819), (14, 58825), (15, 58828), (17, 58852), (21, 58894), (22, 58900), (32, 59029), (33, 59032), (40, 59137),