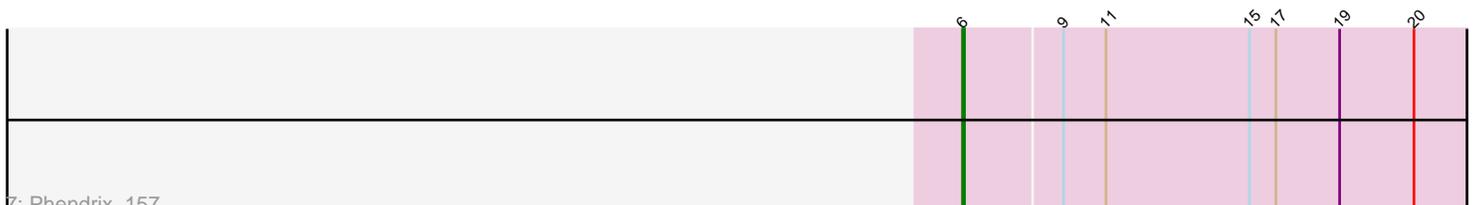
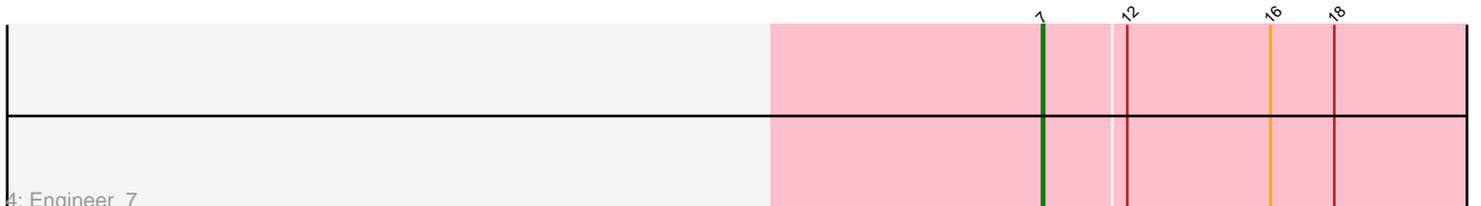
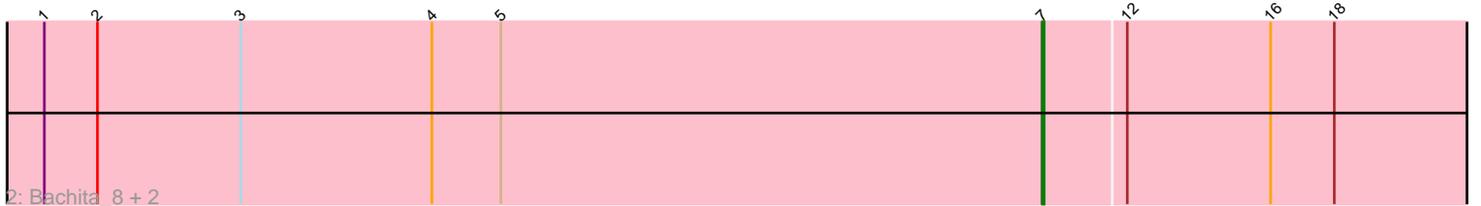


Pham 291601



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 291601 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291601 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Norvs_7, Cucurbita_7, ClubL_7, Miskis_6, Lozinak_7, Smoothie_7, Aphelion_7, Toniann_7
- Track 2 : Bachita_8, Geeche_6, PhinkBoden_8
- Track 3 : Abscondus_6, Culver_6, Dusty_6
- Track 4 : Engineer_7
- Track 5 : WilliamBoone_6
- Track 6 : GodonK_167
- Track 7 : Phendrix_157

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 15 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_6, Aphelion_7, Bachita_8, ClubL_7, Cucurbita_7, Culver_6, Dusty_6, Engineer_7, Geeche_6, Lozinak_7, Miskis_6, Norvs_7, PhinkBoden_8, Smoothie_7, Toniann_7, WilliamBoone_6,

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

-

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

- GodonK_167, Phendrix_157,

Summary by start number:

Start 6:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phendrix_157 (DK),

Start 7:

- Found in 16 of 18 (88.9%) of genes in pham
- Manual Annotations of this start: 15 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_6 (CQ1), Aphelion_7 (CQ1), Bachita_8 (CQ1), ClubL_7 (CQ1), Cucurbita_7 (CQ1), Culver_6 (CQ1), Dusty_6 (CQ1), Engineer_7 (CQ1), Geeche_6 (CQ1), Lozinak_7 (CQ1), Miskis_6 (CQ1), Norvs_7 (CQ1), PhinkBoden_8 (CQ1), Smoothie_7 (CQ1), Toniann_7 (CQ1), WilliamBoone_6 (CQ1),

Start 8:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodonK_167 (DK),

Summary by clusters:

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

Info for manual annotations of cluster CQ1:

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

Info for manual annotations of cluster DK:

- Start number 6 was manually annotated 1 time for cluster DK.
- Start number 8 was manually annotated 1 time for cluster DK.

Gene Information:

Gene: Abscondus_6 Start: 1603, Stop: 1334, Start Num: 7

Candidate Starts for Abscondus_6:

(1, 2167), (2, 2137), (3, 2056), (4, 1948), (5, 1909), (Start: 7 @1603 has 15 MA's), (10, 1573), (12, 1558), (16, 1477), (18, 1441),

Gene: Aphelion_7 Start: 1779, Stop: 1510, Start Num: 7

Candidate Starts for Aphelion_7:

(4, 2124), (5, 2085), (Start: 7 @1779 has 15 MA's), (12, 1734), (16, 1653), (18, 1617),

Gene: Bachita_8 Start: 2279, Stop: 2010, Start Num: 7

Candidate Starts for Bachita_8:

(1, 2843), (2, 2813), (3, 2732), (4, 2624), (5, 2585), (Start: 7 @2279 has 15 MA's), (12, 2234), (16, 2153), (18, 2117),

Gene: ClubL_7 Start: 1779, Stop: 1510, Start Num: 7

Candidate Starts for ClubL_7:

(4, 2124), (5, 2085), (Start: 7 @1779 has 15 MA's), (12, 1734), (16, 1653), (18, 1617),

Gene: Cucurbita_7 Start: 1779, Stop: 1510, Start Num: 7

Candidate Starts for Cucurbita_7:

(4, 2124), (5, 2085), (Start: 7 @1779 has 15 MA's), (12, 1734), (16, 1653), (18, 1617),

Gene: Culver_6 Start: 1603, Stop: 1334, Start Num: 7

Candidate Starts for Culver_6:

(1, 2167), (2, 2137), (3, 2056), (4, 1948), (5, 1909), (Start: 7 @1603 has 15 MA's), (10, 1573), (12, 1558), (16, 1477), (18, 1441),

Gene: Dusty_6 Start: 1603, Stop: 1334, Start Num: 7

Candidate Starts for Dusty_6:

(1, 2167), (2, 2137), (3, 2056), (4, 1948), (5, 1909), (Start: 7 @1603 has 15 MA's), (10, 1573), (12, 1558), (16, 1477), (18, 1441),

Gene: Engineer_7 Start: 1779, Stop: 1510, Start Num: 7

Candidate Starts for Engineer_7:

(Start: 7 @1779 has 15 MA's), (12, 1734), (16, 1653), (18, 1617),

Gene: Geeche_6 Start: 1598, Stop: 1329, Start Num: 7

Candidate Starts for Geeche_6:

(1, 2162), (2, 2132), (3, 2051), (4, 1943), (5, 1904), (Start: 7 @1598 has 15 MA's), (12, 1553), (16, 1472), (18, 1436),

Gene: GodonK_167 Start: 85677, Stop: 85414, Start Num: 8

Candidate Starts for GodonK_167:

(Start: 8 @85677 has 1 MA's), (9, 85671), (12, 85635), (13, 85629), (14, 85626), (15, 85566), (17, 85551), (19, 85515), (20, 85473),

Gene: Lozinak_7 Start: 1779, Stop: 1510, Start Num: 7

Candidate Starts for Lozinak_7:

(4, 2124), (5, 2085), (Start: 7 @1779 has 15 MA's), (12, 1734), (16, 1653), (18, 1617),

Gene: Miskis_6 Start: 1779, Stop: 1510, Start Num: 7

Candidate Starts for Miskis_6:

(4, 2124), (5, 2085), (Start: 7 @1779 has 15 MA's), (12, 1734), (16, 1653), (18, 1617),

Gene: Norvs_7 Start: 1779, Stop: 1510, Start Num: 7

Candidate Starts for Norvs_7:

(4, 2124), (5, 2085), (Start: 7 @1779 has 15 MA's), (12, 1734), (16, 1653), (18, 1617),

Gene: Phendrix_157 Start: 84630, Stop: 84319, Start Num: 6

Candidate Starts for Phendrix_157:

(Start: 6 @84630 has 1 MA's), (9, 84576), (11, 84552), (15, 84471), (17, 84456), (19, 84420), (20, 84378),

Gene: PhinkBoden_8 Start: 2279, Stop: 2010, Start Num: 7

Candidate Starts for PhinkBoden_8:

(1, 2843), (2, 2813), (3, 2732), (4, 2624), (5, 2585), (Start: 7 @2279 has 15 MA's), (12, 2234), (16, 2153), (18, 2117),

Gene: Smoothie_7 Start: 1779, Stop: 1510, Start Num: 7

Candidate Starts for Smoothie_7:

(4, 2124), (5, 2085), (Start: 7 @1779 has 15 MA's), (12, 1734), (16, 1653), (18, 1617),

Gene: Toniann_7 Start: 1779, Stop: 1510, Start Num: 7

Candidate Starts for Toniann_7:

(4, 2124), (5, 2085), (Start: 7 @1779 has 15 MA's), (12, 1734), (16, 1653), (18, 1617),

Gene: WilliamBoone_6 Start: 1630, Stop: 1361, Start Num: 7
Candidate Starts for WilliamBoone_6:
(Start: 7 @1630 has 15 MA's), (12, 1585),