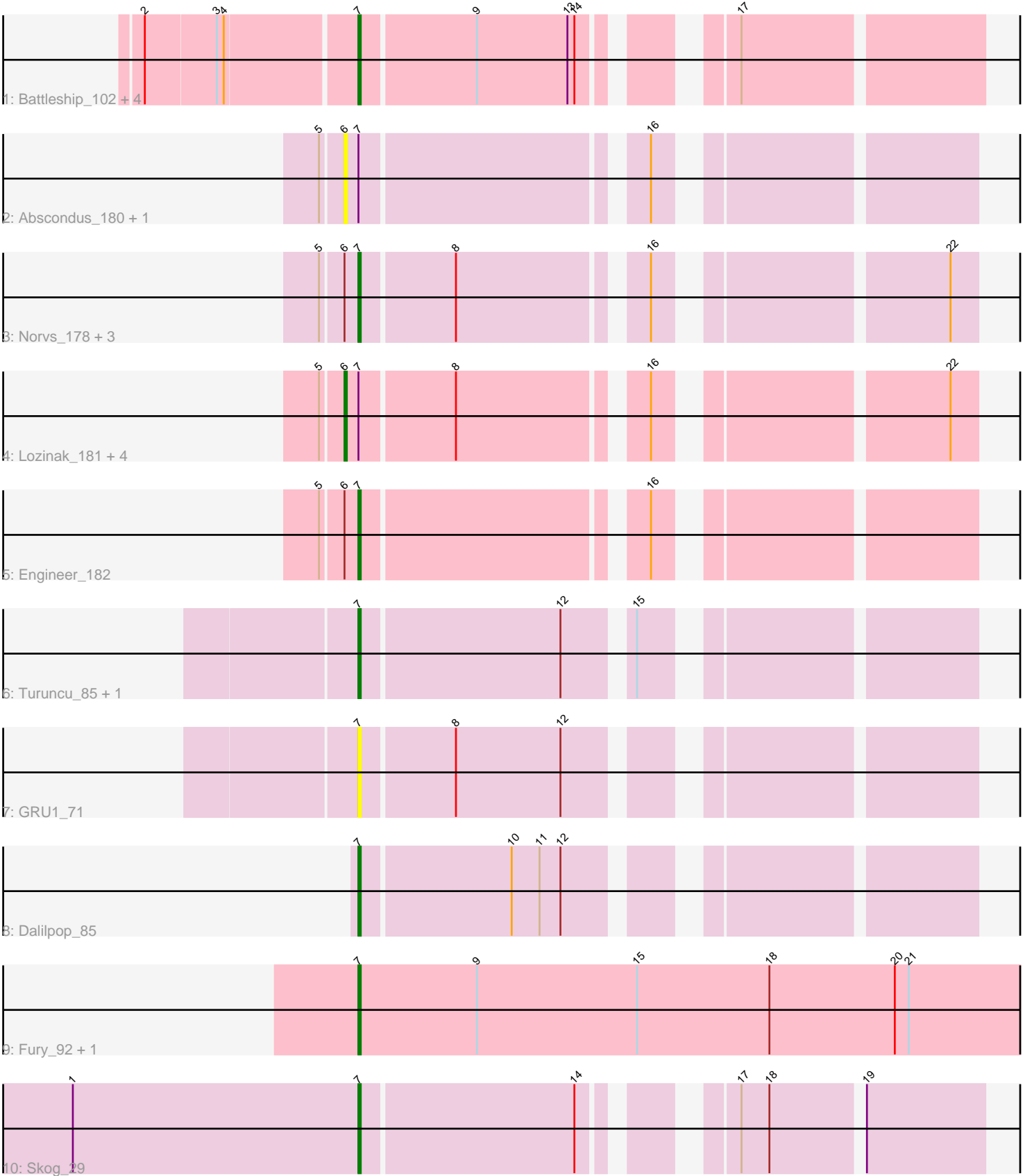


Pham 3408



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 3408 Report

This analysis was run 04/28/24 on database version 559.

Pham number 3408 has 24 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Battleship_102, MinecraftSteve_100, Rosalind_100, Waits_99, DekHockey33_102
- Track 2 : Abscondus_180, Dusty_174
- Track 3 : Norvs_178, Miskis_181, Smoothie_182, Cucurbita_180
- Track 4 : Lozinak_181, PhinkBoden_178, Toniann_181, Aphelion_178, ClubL_181
- Track 5 : Engineer_182
- Track 6 : Turuncu_85, GTE5_70
- Track 7 : GRU1_71
- Track 8 : Dalilpop_85
- Track 9 : Fury_92, Pleakley_92
- Track 10 : Skog_29

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

Genes that call this "Most Annotated" start:

- Battleship_102, Cucurbita_180, Dalilpop_85, DekHockey33_102, Engineer_182, Fury_92, GRU1_71, GTE5_70, MinecraftSteve_100, Miskis_181, Norvs_178, Pleakley_92, Rosalind_100, Skog_29, Smoothie_182, Turuncu_85, Waits_99,

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

- Abscondus_180, Aphelion_178, ClubL_181, Dusty_174, Lozinak_181, PhinkBoden_178, Toniann_181,

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

-

Summary by start number:

Start 6:

- Found in 12 of 24 (50.0%) of genes in pham
- Manual Annotations of this start: 5 of 19

- Called 58.3% of time when present
- Phage (with cluster) where this start called: Abscondus_180 (CQ), Aphelion_178 (CQ1), ClubL_181 (CQ1), Dusty_174 (CQ), Lozinak_181 (CQ1), PhinkBoden_178 (CQ1), Toniann_181 (CQ1),

Start 7:

- Found in 24 of 24 (100.0%) of genes in pham
- Manual Annotations of this start: 14 of 19
- Called 70.8% of time when present
- Phage (with cluster) where this start called: Battleship_102 (A15), Cucurbita_180 (CQ1), Dalilpop_85 (CR1), DekHockey33_102 (A15), Engineer_182 (CQ1), Fury_92 (CR5), GRU1_71 (CR1), GTE5_70 (CR1), MinecraftSteve_100 (A15), Miskis_181 (CQ), Norvs_178 (CQ), Pleakley_92 (CR5), Rosalind_100 (A15), Skog_29 (DO), Smoothie_182 (CQ1), Turuncu_85 (CR1), Waits_99 (A15),

Summary by clusters:

There are 6 clusters represented in this pham: A15, DO, CR1, CR5, CQ1, CQ,

Info for manual annotations of cluster A15:

- Start number 7 was manually annotated 5 times for cluster A15.

Info for manual annotations of cluster CQ:

- Start number 7 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 6 was manually annotated 5 times for cluster CQ1.
- Start number 7 was manually annotated 3 times for cluster CQ1.

Info for manual annotations of cluster CR1:

- Start number 7 was manually annotated 2 times for cluster CR1.

Info for manual annotations of cluster CR5:

- Start number 7 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster DO:

- Start number 7 was manually annotated 1 time for cluster DO.

Gene Information:

Gene: Abscondus_180 Start: 90099, Stop: 89863, Start Num: 6

Candidate Starts for Abscondus_180:

(5, 90108), (Start: 6 @90099 has 5 MA's), (Start: 7 @90093 has 14 MA's), (16, 89982),

Gene: Aphelion_178 Start: 90641, Stop: 90405, Start Num: 6

Candidate Starts for Aphelion_178:

(5, 90650), (Start: 6 @90641 has 5 MA's), (Start: 7 @90635 has 14 MA's), (8, 90596), (16, 90524), (22, 90416),

Gene: Battleship_102 Start: 50762, Stop: 50529, Start Num: 7

Candidate Starts for Battleship_102:

(2, 50849), (3, 50819), (4, 50816), (Start: 7 @50762 has 14 MA's), (9, 50714), (13, 50675), (14, 50672), (17, 50627),

Gene: ClubL_181 Start: 89962, Stop: 89726, Start Num: 6

Candidate Starts for ClubL_181:

(5, 89971), (Start: 6 @89962 has 5 MA's), (Start: 7 @89956 has 14 MA's), (8, 89917), (16, 89845), (22, 89737),

Gene: Cucurbita_180 Start: 91017, Stop: 90787, Start Num: 7

Candidate Starts for Cucurbita_180:

(5, 91032), (Start: 6 @91023 has 5 MA's), (Start: 7 @91017 has 14 MA's), (8, 90978), (16, 90906), (22, 90798),

Gene: Dalilpop_85 Start: 61525, Stop: 61758, Start Num: 7

Candidate Starts for Dalilpop_85:

(Start: 7 @61525 has 14 MA's), (10, 61588), (11, 61600), (12, 61609),

Gene: DekHockey33_102 Start: 50975, Stop: 50742, Start Num: 7

Candidate Starts for DekHockey33_102:

(2, 51062), (3, 51032), (4, 51029), (Start: 7 @50975 has 14 MA's), (9, 50927), (13, 50888), (14, 50885), (17, 50840),

Gene: Dusty_174 Start: 89368, Stop: 89132, Start Num: 6

Candidate Starts for Dusty_174:

(5, 89377), (Start: 6 @89368 has 5 MA's), (Start: 7 @89362 has 14 MA's), (16, 89251),

Gene: Engineer_182 Start: 90713, Stop: 90483, Start Num: 7

Candidate Starts for Engineer_182:

(5, 90728), (Start: 6 @90719 has 5 MA's), (Start: 7 @90713 has 14 MA's), (16, 90602),

Gene: Fury_92 Start: 61203, Stop: 61499, Start Num: 7

Candidate Starts for Fury_92:

(Start: 7 @61203 has 14 MA's), (9, 61254), (15, 61323), (18, 61380), (20, 61434), (21, 61440),

Gene: GRU1_71 Start: 52978, Stop: 53211, Start Num: 7

Candidate Starts for GRU1_71:

(Start: 7 @52978 has 14 MA's), (8, 53017), (12, 53062),

Gene: GTE5_70 Start: 53879, Stop: 54112, Start Num: 7

Candidate Starts for GTE5_70:

(Start: 7 @53879 has 14 MA's), (12, 53963), (15, 53987),

Gene: Lozinak_181 Start: 90566, Stop: 90330, Start Num: 6

Candidate Starts for Lozinak_181:

(5, 90575), (Start: 6 @90566 has 5 MA's), (Start: 7 @90560 has 14 MA's), (8, 90521), (16, 90449), (22, 90341),

Gene: MinecraftSteve_100 Start: 50558, Stop: 50325, Start Num: 7

Candidate Starts for MinecraftSteve_100:

(2, 50645), (3, 50615), (4, 50612), (Start: 7 @50558 has 14 MA's), (9, 50510), (13, 50471), (14, 50468), (17, 50423),

Gene: Miskis_181 Start: 89401, Stop: 89171, Start Num: 7

Candidate Starts for Miskis_181:

(5, 89416), (Start: 6 @89407 has 5 MA's), (Start: 7 @89401 has 14 MA's), (8, 89362), (16, 89290), (22, 89182),

Gene: Norvs_178 Start: 89736, Stop: 89506, Start Num: 7

Candidate Starts for Norvs_178:

(5, 89751), (Start: 6 @89742 has 5 MA's), (Start: 7 @89736 has 14 MA's), (8, 89697), (16, 89625), (22, 89517),

Gene: PhinkBoden_178 Start: 90140, Stop: 89904, Start Num: 6

Candidate Starts for PhinkBoden_178:

(5, 90149), (Start: 6 @90140 has 5 MA's), (Start: 7 @90134 has 14 MA's), (8, 90095), (16, 90023), (22, 89915),

Gene: Pleakley_92 Start: 61204, Stop: 61500, Start Num: 7

Candidate Starts for Pleakley_92:

(Start: 7 @61204 has 14 MA's), (9, 61255), (15, 61324), (18, 61381), (20, 61435), (21, 61441),

Gene: Rosalind_100 Start: 50691, Stop: 50458, Start Num: 7

Candidate Starts for Rosalind_100:

(2, 50778), (3, 50748), (4, 50745), (Start: 7 @50691 has 14 MA's), (9, 50643), (13, 50604), (14, 50601), (17, 50556),

Gene: Skog_29 Start: 13331, Stop: 13564, Start Num: 7

Candidate Starts for Skog_29:

(1, 13208), (Start: 7 @13331 has 14 MA's), (14, 13421), (17, 13466), (18, 13478), (19, 13514),

Gene: Smoothie_182 Start: 90432, Stop: 90202, Start Num: 7

Candidate Starts for Smoothie_182:

(5, 90447), (Start: 6 @90438 has 5 MA's), (Start: 7 @90432 has 14 MA's), (8, 90393), (16, 90321), (22, 90213),

Gene: Toniann_181 Start: 89883, Stop: 89647, Start Num: 6

Candidate Starts for Toniann_181:

(5, 89892), (Start: 6 @89883 has 5 MA's), (Start: 7 @89877 has 14 MA's), (8, 89838), (16, 89766), (22, 89658),

Gene: Turuncu_85 Start: 60988, Stop: 61221, Start Num: 7

Candidate Starts for Turuncu_85:

(Start: 7 @60988 has 14 MA's), (12, 61072), (15, 61096),

Gene: Waits_99 Start: 50865, Stop: 50632, Start Num: 7

Candidate Starts for Waits_99:

(2, 50952), (3, 50922), (4, 50919), (Start: 7 @50865 has 14 MA's), (9, 50817), (13, 50778), (14, 50775), (17, 50730),