Pham 284268

6
12
13
17
18
22
23
1: Salvus_65 + 1
8
12
17
18
20
26
2: 8UZL_65 + 1
6
12
14
16
17
18
22
3: Maco6_61
6
14
15
17
4: Muddy_65
4
7
9
10
11
13
17
19
21
23
24
5: Cborch11_84 + 8
1
2
3
5
10
15
25
6: Puissant_84

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 284268 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284268 has 16 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Salvus_65, LongHai_65
• Track 2 : 8UZL_65, FF47_62
• Track 3 : Maco6_61
• Track 4 : Muddy_65
• Track 5 : Cborch11_84, Thumb_84, Konstantine_86, Phreeze_82, Damien_83, Megatron06_84, Oaker_83, Beckerton_82, BobtimousPrime_83
• Track 6 : Puissant_84

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

The start number called the most often in the published annotations is 4, it was called in 8 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beckerton_82, BobtimousPrime_83, Cborch11_84, Damien_83, Konstantine_86, Megatron06_84, Oaker_83, Phreeze_82, Thumb_84,

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

Genes that do not have the "Most Annotated" start:
• 8UZL_65, FF47_62, LongHai_65, Maco6_61, Muddy_65, Puissant_84, Salvus_65,

Summary by start number:

Start 3:
• Found in 1 of 16 (6.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Puissant_84 (H1),

Start 4:
• Found in 9 of 16 (56.2%) of genes in pham
• Manual Annotations of this start: 8 of 10

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beckerton_82 (H1), BobtimousPrime_83 (H1), Cborch11_84 (H1), Damien_83 (H1), Konstantine_86 (H1), Megatron06_84 (H1), Oaker_83 (H1), Phreeze_82 (H1), Thumb_84 (H1),

Start 6:
• Found in 4 of 16 (25.0%) of genes in pham
• Manual Annotations of this start: 2 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LongHai_65 (AB), Maco6_61 (AB), Muddy_65 (AB), Salvus_65 (AB),

Start 8:
• Found in 2 of 16 (12.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 8UZL_65 (AB), FF47_62 (AB),

Summary by clusters:

There are 2 clusters represented in this pham: AB, H1,

Info for manual annotations of cluster AB:
•Start number 6 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster H1:
•Start number 4 was manually annotated 8 times for cluster H1.

Gene Information:

Gene: 8UZL_65 Start: 45616, Stop: 45861, Start Num: 8
Candidate Starts for 8UZL_65:
(8, 45616), (12, 45658), (17, 45682), (18, 45700), (20, 45721), (26, 45841),

Gene: Beckerton_82 Start: 61648, Stop: 61923, Start Num: 4
Candidate Starts for Beckerton_82:
(Start: 4 @61648 has 8 MA's), (7, 61660), (9, 61681), (10, 61699), (11, 61702), (13, 61711), (17, 61732), (19, 61762), (21, 61780), (23, 61801), (24, 61807),

Gene: BobtimousPrime_83 Start: 61899, Stop: 62174, Start Num: 4
Candidate Starts for BobtimousPrime_83:
(Start: 4 @61899 has 8 MA's), (7, 61911), (9, 61932), (10, 61950), (11, 61953), (13, 61962), (17, 61983), (19, 62013), (21, 62031), (23, 62052), (24, 62058),

Gene: Cborch11_84 Start: 60834, Stop: 61109, Start Num: 4
Candidate Starts for Cborch11_84:
(Start: 4 @60834 has 8 MA's), (7, 60846), (9, 60867), (10, 60885), (11, 60888), (13, 60897), (17, 60918), (19, 60948), (21, 60966), (23, 60987), (24, 60993),

Gene: Damien_83 Start: 61144, Stop: 61419, Start Num: 4
Candidate Starts for Damien_83:

(Start: 4 @61144 has 8 MA's), (7, 61156), (9, 61177), (10, 61195), (11, 61198), (13, 61207), (17, 61228), (19, 61258), (21, 61276), (23, 61297), (24, 61303),

Gene: FF47_62 Start: 45530, Stop: 45775, Start Num: 8
Candidate Starts for FF47_62:
(8, 45530), (12, 45572), (17, 45596), (18, 45614), (20, 45635), (26, 45755),

Gene: Konstantine_86 Start: 61648, Stop: 61923, Start Num: 4
Candidate Starts for Konstantine_86:
(Start: 4 @61648 has 8 MA's), (7, 61660), (9, 61681), (10, 61699), (11, 61702), (13, 61711), (17, 61732), (19, 61762), (21, 61780), (23, 61801), (24, 61807),

Gene: LongHai_65 Start: 45895, Stop: 46131, Start Num: 6
Candidate Starts for LongHai_65:
(Start: 6 @45895 has 2 MA's), (12, 45934), (13, 45937), (17, 45958), (18, 45976), (22, 46021), (23, 46027),

Gene: Maco6_61 Start: 44965, Stop: 45207, Start Num: 6
Candidate Starts for Maco6_61:
(Start: 6 @44965 has 2 MA's), (12, 45004), (14, 45010), (16, 45019), (17, 45028), (18, 45046), (22, 45091),

Gene: Megatron06_84 Start: 61729, Stop: 62004, Start Num: 4
Candidate Starts for Megatron06_84:
(Start: 4 @61729 has 8 MA's), (7, 61741), (9, 61762), (10, 61780), (11, 61783), (13, 61792), (17, 61813), (19, 61843), (21, 61861), (23, 61882), (24, 61888),

Gene: Muddy_65 Start: 46063, Stop: 46299, Start Num: 6
Candidate Starts for Muddy_65:
(Start: 6 @46063 has 2 MA's), (14, 46108), (15, 46114), (17, 46126),

Gene: Oaker_83 Start: 61746, Stop: 62021, Start Num: 4
Candidate Starts for Oaker_83:
(Start: 4 @61746 has 8 MA's), (7, 61758), (9, 61779), (10, 61797), (11, 61800), (13, 61809), (17, 61830), (19, 61860), (21, 61878), (23, 61899), (24, 61905),

Gene: Phreeze_82 Start: 60678, Stop: 60953, Start Num: 4
Candidate Starts for Phreeze_82:
(Start: 4 @60678 has 8 MA's), (7, 60690), (9, 60711), (10, 60729), (11, 60732), (13, 60741), (17, 60762), (19, 60792), (21, 60810), (23, 60831), (24, 60837),

Gene: Puissant_84 Start: 60938, Stop: 61234, Start Num: 3
Candidate Starts for Puissant_84:
(1, 60761), (2, 60767), (3, 60938), (5, 60962), (10, 61010), (15, 61031), (25, 61175),

Gene: Salvus_65 Start: 45895, Stop: 46131, Start Num: 6
Candidate Starts for Salvus_65:
(Start: 6 @45895 has 2 MA's), (12, 45934), (13, 45937), (17, 45958), (18, 45976), (22, 46021), (23, 46027),

Gene: Thumb_84 Start: 61098, Stop: 61373, Start Num: 4
Candidate Starts for Thumb_84:

(Start: 4 @61098 has 8 MA's), (7, 61110), (9, 61131), (10, 61149), (11, 61152), (13, 61161), (17, 61182), (19, 61212), (21, 61230), (23, 61251), (24, 61257),