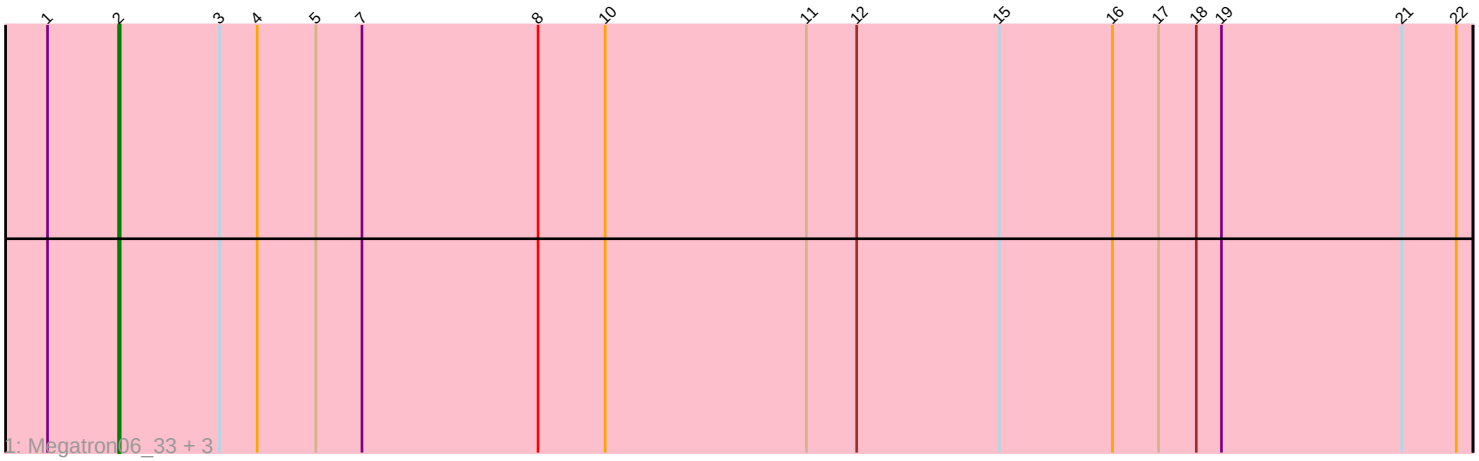
Pham 293370


1
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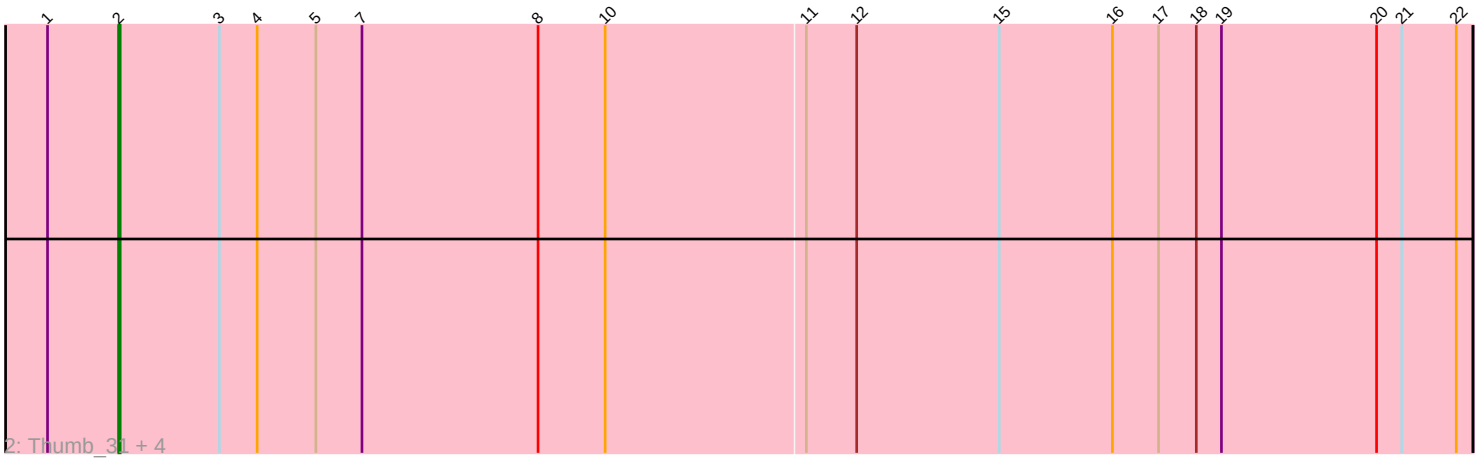
21
22
1: Megatron06_33 + 3


1
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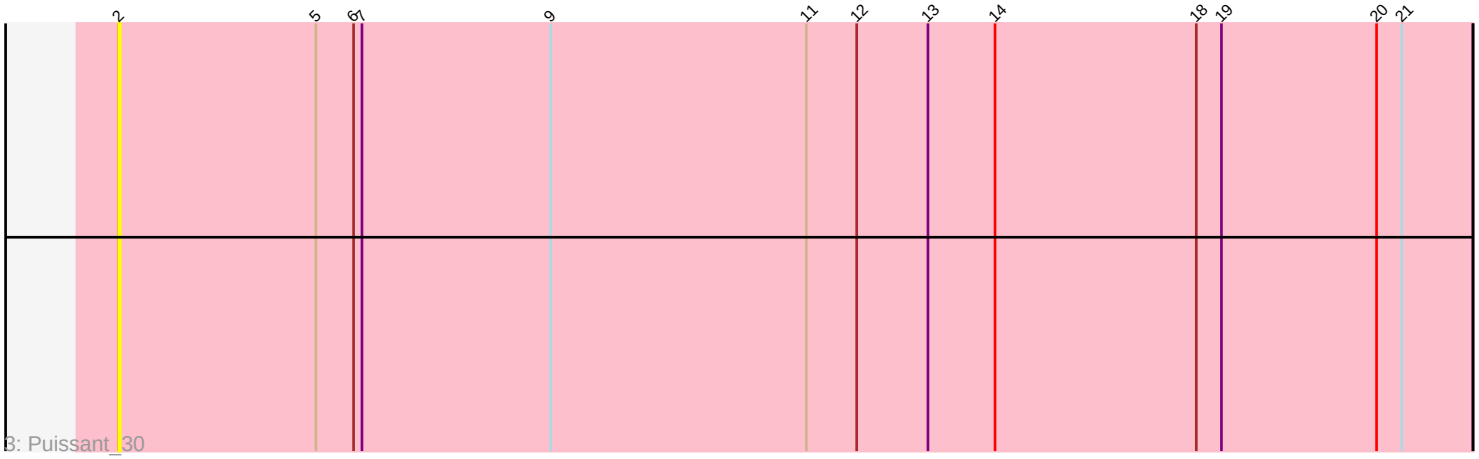
22
2: Thumb_31 + 4


2
5
6
7
9
11
12
13
14
18
19
20
21
3: Puissant_30

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 293370 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293370 has 10 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Megatron06_33, Damien_31, Cborch11_32, Konstantine_36
• Track 2 : Thumb_31, Oaker_31, BobtimousPrime_30, Phreeze_31, Beckerton_31
• Track 3 : Puissant_30

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 8 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beckerton_31, BobtimousPrime_30, Cborch11_32, Damien_31, Konstantine_36, Megatron06_33, Oaker_31, Phreeze_31, Puissant_30, Thumb_31,

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

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

Summary by start number:

Start 2:
• Found in 10 of 10 (100.0%) of genes in pham
• Manual Annotations of this start: 8 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beckerton_31 (H1), BobtimousPrime_30 (H1), Cborch11_32 (H1), Damien_31 (H1), Konstantine_36 (H1), Megatron06_33 (H1), Oaker_31 (H1), Phreeze_31 (H1), Puissant_30 (H1), Thumb_31 (H1),

Summary by clusters:

There is one cluster represented in this pham: H1

Info for manual annotations of cluster H1:

•Start number 2 was manually annotated 8 times for cluster H1.

Gene Information:

Gene: Beckerton_31 Start: 30267, Stop: 31232, Start Num: 2
Candidate Starts for Beckerton_31:
(1, 30216), (Start: 2 @30267 has 8 MA's), (3, 30339), (4, 30366), (5, 30408), (7, 30441), (8, 30567), (10, 30615), (11, 30756), (12, 30792), (15, 30894), (16, 30975), (17, 31008), (18, 31035), (19, 31053), (20, 31164), (21, 31182), (22, 31221),

Gene: BobtimousPrime_30 Start: 30187, Stop: 31152, Start Num: 2
Candidate Starts for BobtimousPrime_30:
(1, 30136), (Start: 2 @30187 has 8 MA's), (3, 30259), (4, 30286), (5, 30328), (7, 30361), (8, 30487), (10, 30535), (11, 30676), (12, 30712), (15, 30814), (16, 30895), (17, 30928), (18, 30955), (19, 30973), (20, 31084), (21, 31102), (22, 31141),

Gene: Cborch11_32 Start: 29729, Stop: 30697, Start Num: 2
Candidate Starts for Cborch11_32:
(1, 29678), (Start: 2 @29729 has 8 MA's), (3, 29801), (4, 29828), (5, 29870), (7, 29903), (8, 30029), (10, 30077), (11, 30221), (12, 30257), (15, 30359), (16, 30440), (17, 30473), (18, 30500), (19, 30518), (21, 30647), (22, 30686),

Gene: Damien_31 Start: 29730, Stop: 30698, Start Num: 2
Candidate Starts for Damien_31:
(1, 29679), (Start: 2 @29730 has 8 MA's), (3, 29802), (4, 29829), (5, 29871), (7, 29904), (8, 30030), (10, 30078), (11, 30222), (12, 30258), (15, 30360), (16, 30441), (17, 30474), (18, 30501), (19, 30519), (21, 30648), (22, 30687),

Gene: Konstantine_36 Start: 30931, Stop: 31899, Start Num: 2
Candidate Starts for Konstantine_36:
(1, 30880), (Start: 2 @30931 has 8 MA's), (3, 31003), (4, 31030), (5, 31072), (7, 31105), (8, 31231), (10, 31279), (11, 31423), (12, 31459), (15, 31561), (16, 31642), (17, 31675), (18, 31702), (19, 31720), (21, 31849), (22, 31888),

Gene: Megatron06_33 Start: 30263, Stop: 31231, Start Num: 2
Candidate Starts for Megatron06_33:
(1, 30212), (Start: 2 @30263 has 8 MA's), (3, 30335), (4, 30362), (5, 30404), (7, 30437), (8, 30563), (10, 30611), (11, 30755), (12, 30791), (15, 30893), (16, 30974), (17, 31007), (18, 31034), (19, 31052), (21, 31181), (22, 31220),

Gene: Oaker_31 Start: 29987, Stop: 30955, Start Num: 2
Candidate Starts for Oaker_31:
(1, 29936), (Start: 2 @29987 has 8 MA's), (3, 30059), (4, 30086), (5, 30128), (7, 30161), (8, 30287), (10, 30335), (11, 30479), (12, 30515), (15, 30617), (16, 30698), (17, 30731), (18, 30758), (19, 30776), (20, 30887), (21, 30905), (22, 30944),

Gene: Phreeze_31 Start: 29730, Stop: 30698, Start Num: 2
Candidate Starts for Phreeze_31:
(1, 29679), (Start: 2 @29730 has 8 MA's), (3, 29802), (4, 29829), (5, 29871), (7, 29904), (8, 30030), (10, 30078), (11, 30222), (12, 30258), (15, 30360), (16, 30441), (17, 30474), (18, 30501), (19, 30519), (20, 30630), (21, 30648), (22, 30687),

Gene: Puissant_30 Start: 30199, Stop: 31167, Start Num: 2
Candidate Starts for Puissant_30:
(Start: 2 @30199 has 8 MA's), (5, 30340), (6, 30367), (7, 30373), (9, 30508), (11, 30691), (12, 30727), (13, 30778), (14, 30826), (18, 30970), (19, 30988), (20, 31099), (21, 31117),

Gene: Thumb_31 Start: 29730, Stop: 30695, Start Num: 2
Candidate Starts for Thumb_31:
(1, 29679), (Start: 2 @29730 has 8 MA's), (3, 29802), (4, 29829), (5, 29871), (7, 29904), (8, 30030), (10, 30078), (11, 30219), (12, 30255), (15, 30357), (16, 30438), (17, 30471), (18, 30498), (19, 30516), (20, 30627), (21, 30645), (22, 30684),