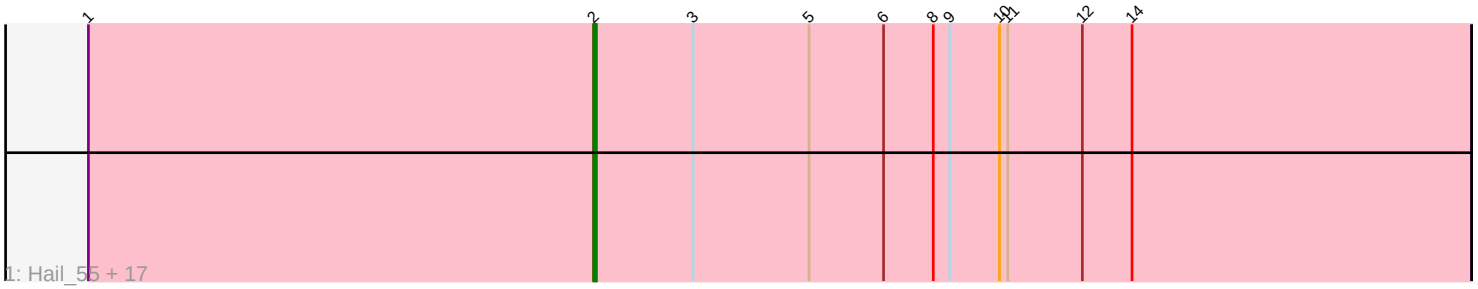
Pham 284138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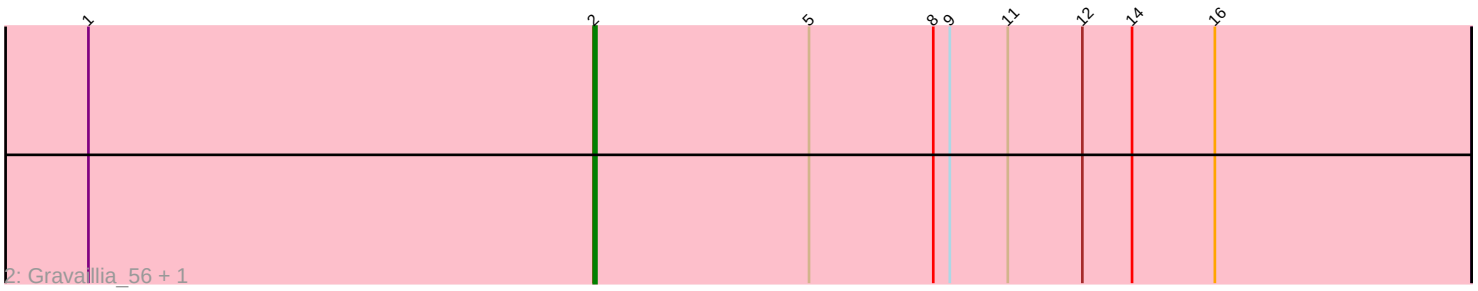
14
1: Hail_55 + 17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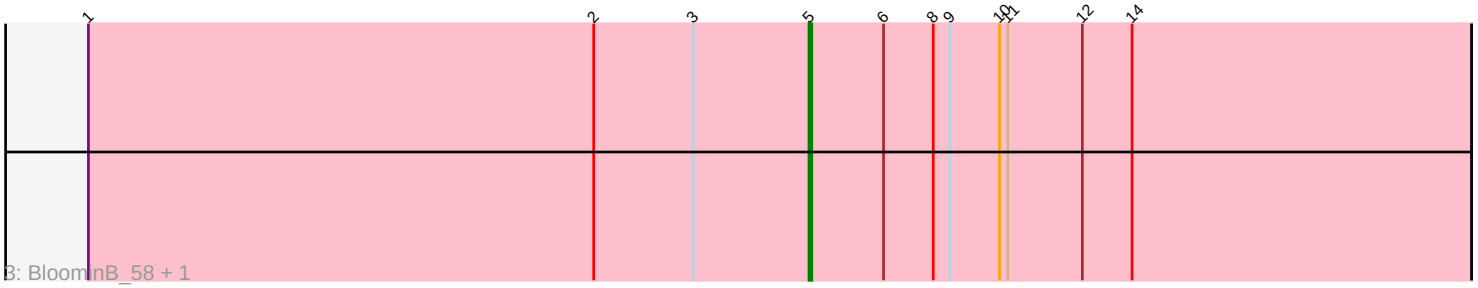
16
2: Gravaillia_56 + 1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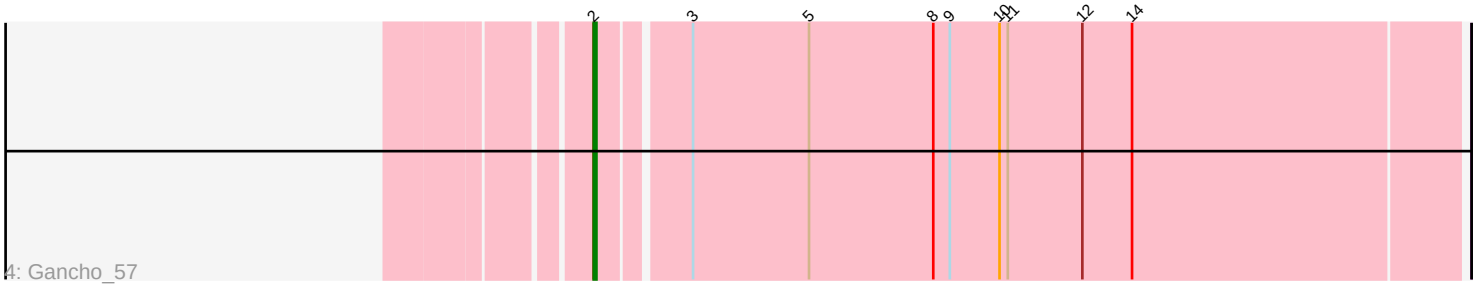
3: BloomInB_58 + 1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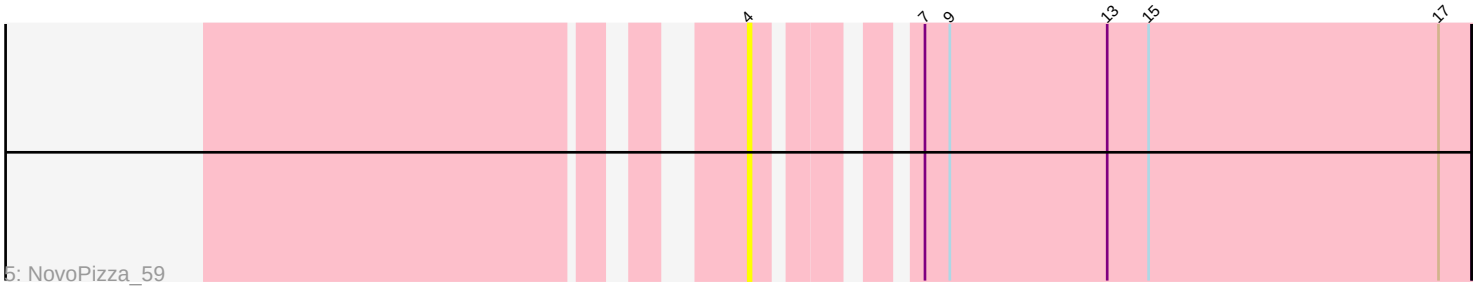
4: Gancho_57


4
7
9
13
15
17
5: NovoPizza_59

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 284138 Report

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

Pham number 284138 has 24 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Hail_55, Ubuntu_58, LilHazelnut_58, Hadrien_57, Evanesce_57, Wishmaker_55, Daegal_60, Webster2_58, Ein37_58, Giles_55, Amymech_58, Dewey_55, DeepSoil15_58, Forge_55, Luke_57, Luna22_55, Kinbote_57, Amochick_58
• Track 2 : Gravaillia_56, OBUpride_58
• Track 3 : BloominB_58, HH92_57
• Track 4 : Gancho_57
• Track 5 : NovoPizza_59

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 21 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amochick_58, Amymech_58, Daegal_60, DeepSoil15_58, Dewey_55, Ein37_58, Evanesce_57, Forge_55, Gancho_57, Giles_55, Gravaillia_56, Hadrien_57, Hail_55, Kinbote_57, LilHazelnut_58, Luke_57, Luna22_55, OBUpride_58, Ubuntu_58, Webster2_58, Wishmaker_55,

Genes that have the "Most Annotated" start but do not call it:
• BloominB_58, HH92_57,

Genes that do not have the "Most Annotated" start:
• NovoPizza_59,

Summary by start number:

Start 2:
• Found in 23 of 24 (95.8%) of genes in pham
• Manual Annotations of this start: 21 of 22
• Called 91.3% of time when present
• Phage (with cluster) where this start called: Amochick_58 (Q), Amymech_58 (Q), Daegal_60 (Q), DeepSoil15_58 (Q), Dewey_55 (Q), Ein37_58 (Q), Evanesce_57 (Q),

Forge_55 (Q), Gancho_57 (Q), Giles_55 (Q), Gravaillia_56 (Q), Hadrien_57 (Q), Hail_55 (Q), Kinbote_57 (Q), LilHazelnut_58 (Q), Luke_57 (Q), Luna22_55 (Q), OBUpride_58 (Q), Ubuntu_58 (Q), Webster2_58 (Q), Wishmaker_55 (Q),

Start 4:
• Found in 1 of 24 (4.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NovoPizza_59 (Q),

Start 5:
• Found in 23 of 24 (95.8%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 8.7% of time when present
• Phage (with cluster) where this start called: BloominB_58 (Q), HH92_57 (Q),

Summary by clusters:

There is one cluster represented in this pham: Q

Info for manual annotations of cluster Q:
•Start number 2 was manually annotated 21 times for cluster Q.
•Start number 5 was manually annotated 1 time for cluster Q.

Gene Information:

Gene: Amochick_58 Start: 41480, Stop: 41785, Start Num: 2
Candidate Starts for Amochick_58:
(1, 41297), (Start: 2 @41480 has 21 MA's), (3, 41510), (Start: 5 @41552 has 1 MA's), (6, 41579), (8, 41597), (9, 41603), (10, 41621), (11, 41624), (12, 41651), (14, 41669),

Gene: Amymech_58 Start: 41450, Stop: 41767, Start Num: 2
Candidate Starts for Amymech_58:
(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),

Gene: BloominB_58 Start: 41528, Stop: 41767, Start Num: 5
Candidate Starts for BloominB_58:
(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),

Gene: Daegal_60 Start: 42034, Stop: 42351, Start Num: 2
Candidate Starts for Daegal_60:
(1, 41851), (Start: 2 @42034 has 21 MA's), (3, 42070), (Start: 5 @42112 has 1 MA's), (6, 42139), (8, 42157), (9, 42163), (10, 42181), (11, 42184), (12, 42211), (14, 42229),

Gene: DeepSoil15_58 Start: 41450, Stop: 41767, Start Num: 2
Candidate Starts for DeepSoil15_58:
(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),

Gene: Dewey_55 Start: 41450, Stop: 41767, Start Num: 2
Candidate Starts for Dewey_55:
(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),

Gene: Ein37_58 Start: 41450, Stop: 41767, Start Num: 2
Candidate Starts for Ein37_58:
(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),

Gene: Evanesce_57 Start: 41450, Stop: 41767, Start Num: 2
Candidate Starts for Evanesce_57:
(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),

Gene: Forge_55 Start: 41450, Stop: 41767, Start Num: 2
Candidate Starts for Forge_55:
(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),

Gene: Gancho_57 Start: 41182, Stop: 41487, Start Num: 2
Candidate Starts for Gancho_57:
(Start: 2 @41182 has 21 MA's), (3, 41212), (Start: 5 @41254 has 1 MA's), (8, 41299), (9, 41305), (10, 41323), (11, 41326), (12, 41353), (14, 41371),

Gene: Giles_55 Start: 41450, Stop: 41767, Start Num: 2
Candidate Starts for Giles_55:
(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),

Gene: Gravaillia_56 Start: 41458, Stop: 41775, Start Num: 2
Candidate Starts for Gravaillia_56:
(1, 41275), (Start: 2 @41458 has 21 MA's), (Start: 5 @41536 has 1 MA's), (8, 41581), (9, 41587), (11, 41608), (12, 41635), (14, 41653), (16, 41683),

Gene: HH92_57 Start: 41528, Stop: 41767, Start Num: 5
Candidate Starts for HH92_57:
(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),

Gene: Hadrien_57 Start: 41450, Stop: 41767, Start Num: 2
Candidate Starts for Hadrien_57:
(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),

Gene: Hail_55 Start: 41450, Stop: 41767, Start Num: 2
Candidate Starts for Hail_55:
(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),

Gene: Kinbote_57 Start: 41450, Stop: 41767, Start Num: 2
Candidate Starts for Kinbote_57:

(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),

Gene: LilHazelnut_58 Start: 41450, Stop: 41767, Start Num: 2
Candidate Starts for LilHazelnut_58:
(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),

Gene: Luke_57 Start: 41405, Stop: 41722, Start Num: 2
Candidate Starts for Luke_57:
(1, 41222), (Start: 2 @41405 has 21 MA's), (3, 41441), (Start: 5 @41483 has 1 MA's), (6, 41510), (8, 41528), (9, 41534), (10, 41552), (11, 41555), (12, 41582), (14, 41600),

Gene: Luna22_55 Start: 41434, Stop: 41751, Start Num: 2
Candidate Starts for Luna22_55:
(1, 41251), (Start: 2 @41434 has 21 MA's), (3, 41470), (Start: 5 @41512 has 1 MA's), (6, 41539), (8, 41557), (9, 41563), (10, 41581), (11, 41584), (12, 41611), (14, 41629),

Gene: NovoPizza_59 Start: 42197, Stop: 42436, Start Num: 4
Candidate Starts for NovoPizza_59:
(4, 42197), (7, 42239), (9, 42248), (13, 42305), (15, 42320), (17, 42425),

Gene: OBUpride_58 Start: 41446, Stop: 41763, Start Num: 2
Candidate Starts for OBUpride_58:
(1, 41263), (Start: 2 @41446 has 21 MA's), (Start: 5 @41524 has 1 MA's), (8, 41569), (9, 41575), (11, 41596), (12, 41623), (14, 41641), (16, 41671),

Gene: Ubuntu_58 Start: 41450, Stop: 41767, Start Num: 2
Candidate Starts for Ubuntu_58:
(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),

Gene: Webster2_58 Start: 41450, Stop: 41767, Start Num: 2
Candidate Starts for Webster2_58:
(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),

Gene: Wishmaker_55 Start: 41450, Stop: 41767, Start Num: 2
Candidate Starts for Wishmaker_55:
(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (Start: 5 @41528 has 1 MA's), (6, 41555), (8, 41573), (9, 41579), (10, 41597), (11, 41600), (12, 41627), (14, 41645),