Pham 87041

1: Parada_61 + 4

2: Pimento_64

3: BetterKatz_61

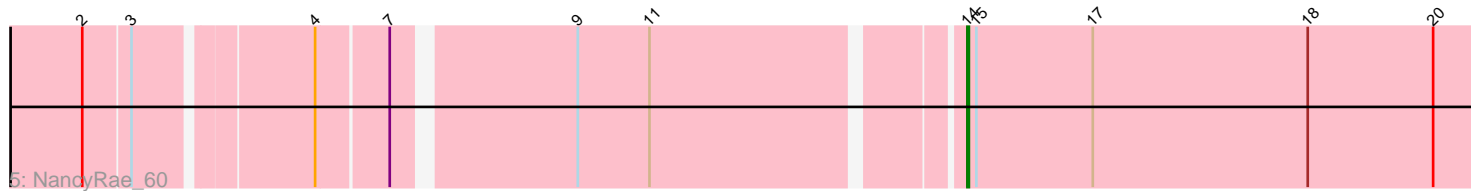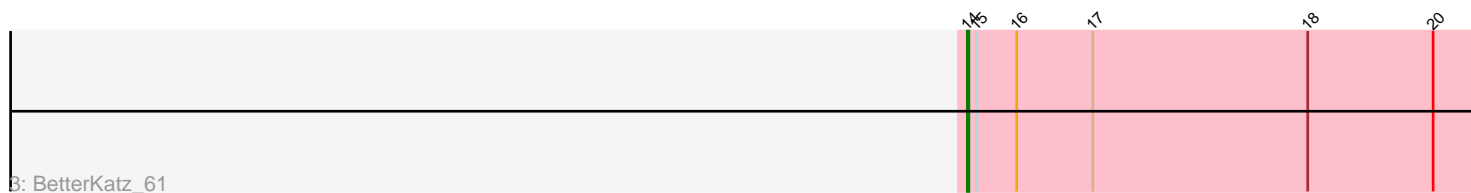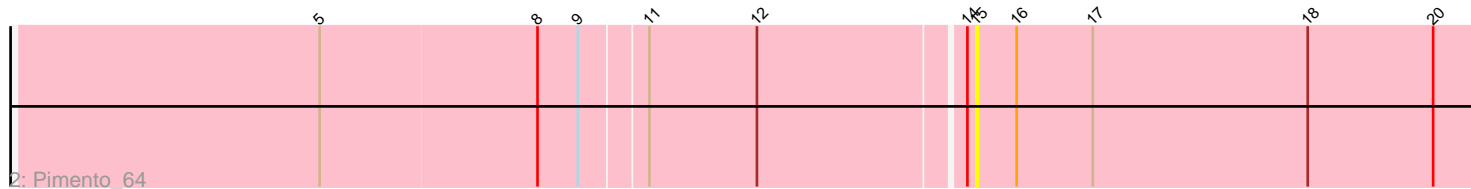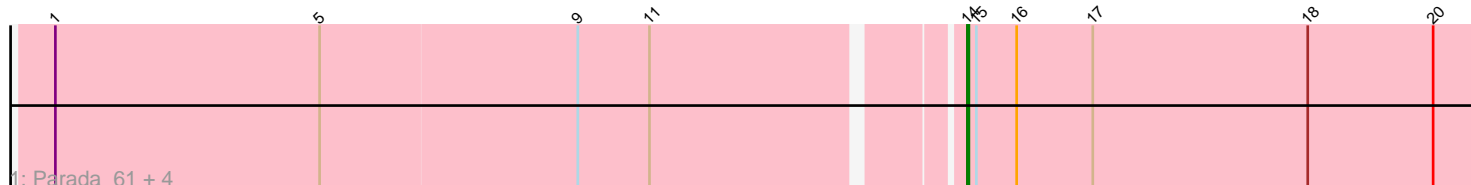4: Hamood_62 + 3

5: NandyRae_60

6: DelRio_62

7: Bock_62

8: Francois_61

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 87041 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87041 has 15 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Parada_61, Mulch_61, Brylie_61, WheatThin_60, Nadeem_61
• Track 2 : Pimento_64
• Track 3 : BetterKatz_61
• Track 4 : Hamood_62, Chop_62, Ayotoya_62, GrandSlam_62
• Track 5 : NancyRae_60
• Track 6 : DelRio_62
• Track 7 : Bock_62
• Track 8 : Francois_61

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

The start number called the most often in the published annotations is 14, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ayotoya_62, BetterKatz_61, Brylie_61, Chop_62, DelRio_62, Francois_61, GrandSlam_62, Hamood_62, Mulch_61, Nadeem_61, NancyRae_60, Parada_61, WheatThin_60,

Genes that have the "Most Annotated" start but do not call it:
• Bock_62, Pimento_64,

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

Summary by start number:

Start 13:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bock_62 (DI),

Start 14:

• Found in 15 of 15 (100.0%) of genes in pham
• Manual Annotations of this start: 12 of 13
• Called 86.7% of time when present
• Phage (with cluster) where this start called: Ayotoya_62 (DI), BetterKatz_61 (DI), Brylie_61 (DI), Chop_62 (DI), DelRio_62 (DI), Francois_61 (DI), GrandSlam_62 (DI), Hamood_62 (DI), Mulch_61 (DI), Nadeem_61 (DI), NancyRae_60 (DI), Parada_61 (DI), WheatThin_60 (DI),

Start 15:
• Found in 15 of 15 (100.0%) of genes in pham
• No Manual Annotations of this start.
• Called 6.7% of time when present
• Phage (with cluster) where this start called: Pimento_64 (DI),

Summary by clusters:

There is one cluster represented in this pham: DI

Info for manual annotations of cluster DI:
•Start number 13 was manually annotated 1 time for cluster DI.
•Start number 14 was manually annotated 12 times for cluster DI.

Gene Information:
Gene: Ayotoya_62 Start: 41497, Stop: 41823, Start Num: 14
Candidate Starts for Ayotoya_62:
(5, 41086), (9, 41257), (11, 41305), (Start: 14 @41497 has 12 MA's), (15, 41503), (16, 41530), (17, 41581), (18, 41725), (19, 41734),

Gene: BetterKatz_61 Start: 40651, Stop: 40998, Start Num: 14
Candidate Starts for BetterKatz_61:
(Start: 14 @40651 has 12 MA's), (15, 40657), (16, 40684), (17, 40735), (18, 40879), (20, 40963),

Gene: Bock_62 Start: 40692, Stop: 41042, Start Num: 13
Candidate Starts for Bock_62:
(3, 40176), (4, 40284), (7, 40329), (9, 40440), (10, 40470), (11, 40485), (Start: 13 @40692 has 1 MA's), (Start: 14 @40695 has 12 MA's), (15, 40701), (16, 40728), (17, 40779), (18, 40923), (19, 40932), (20, 41007),

Gene: Brylie_61 Start: 40477, Stop: 40824, Start Num: 14
Candidate Starts for Brylie_61:
(1, 39889), (5, 40066), (9, 40237), (11, 40285), (Start: 14 @40477 has 12 MA's), (15, 40483), (16, 40510), (17, 40561), (18, 40705), (20, 40789),

Gene: Chop_62 Start: 41248, Stop: 41574, Start Num: 14
Candidate Starts for Chop_62:
(5, 40837), (9, 41008), (11, 41056), (Start: 14 @41248 has 12 MA's), (15, 41254), (16, 41281), (17, 41332), (18, 41476), (19, 41485),

Gene: DelRio_62 Start: 41664, Stop: 42011, Start Num: 14
Candidate Starts for DelRio_62:

(5, 41247), (8, 41391), (9, 41418), (11, 41460), (12, 41532), (Start: 14 @41664 has 12 MA's), (15, 41670), (16, 41697), (17, 41748), (18, 41892), (20, 41976),

Gene: Francois_61 Start: 40705, Stop: 41034, Start Num: 14
Candidate Starts for Francois_61:
(4, 40288), (6, 40330), (7, 40333), (9, 40459), (10, 40489), (11, 40504), (Start: 14 @40705 has 12 MA's), (15, 40711), (16, 40738), (17, 40789),

Gene: GrandSlam_62 Start: 41248, Stop: 41574, Start Num: 14
Candidate Starts for GrandSlam_62:
(5, 40837), (9, 41008), (11, 41056), (Start: 14 @41248 has 12 MA's), (15, 41254), (16, 41281), (17, 41332), (18, 41476), (19, 41485),

Gene: Hamood_62 Start: 41248, Stop: 41574, Start Num: 14
Candidate Starts for Hamood_62:
(5, 40837), (9, 41008), (11, 41056), (Start: 14 @41248 has 12 MA's), (15, 41254), (16, 41281), (17, 41332), (18, 41476), (19, 41485),

Gene: Mulch_61 Start: 40477, Stop: 40824, Start Num: 14
Candidate Starts for Mulch_61:
(1, 39889), (5, 40066), (9, 40237), (11, 40285), (Start: 14 @40477 has 12 MA's), (15, 40483), (16, 40510), (17, 40561), (18, 40705), (20, 40789),

Gene: Nadeem_61 Start: 40465, Stop: 40812, Start Num: 14
Candidate Starts for Nadeem_61:
(1, 39877), (5, 40054), (9, 40225), (11, 40273), (Start: 14 @40465 has 12 MA's), (15, 40471), (16, 40498), (17, 40549), (18, 40693), (20, 40777),

Gene: NancyRae_60 Start: 40415, Stop: 40762, Start Num: 14
Candidate Starts for NancyRae_60:
(2, 39881), (3, 39911), (4, 40019), (7, 40064), (9, 40175), (11, 40223), (Start: 14 @40415 has 12 MA's), (15, 40421), (17, 40499), (18, 40643), (20, 40727),

Gene: Parada_61 Start: 40477, Stop: 40824, Start Num: 14
Candidate Starts for Parada_61:
(1, 39889), (5, 40066), (9, 40237), (11, 40285), (Start: 14 @40477 has 12 MA's), (15, 40483), (16, 40510), (17, 40561), (18, 40705), (20, 40789),

Gene: Pimento_64 Start: 40399, Stop: 40740, Start Num: 15
Candidate Starts for Pimento_64:
(5, 39976), (8, 40120), (9, 40147), (11, 40189), (12, 40261), (Start: 14 @40393 has 12 MA's), (15, 40399), (16, 40426), (17, 40477), (18, 40621), (20, 40705),

Gene: WheatThin_60 Start: 40465, Stop: 40812, Start Num: 14
Candidate Starts for WheatThin_60:
(1, 39877), (5, 40054), (9, 40225), (11, 40273), (Start: 14 @40465 has 12 MA's), (15, 40471), (16, 40498), (17, 40549), (18, 40693), (20, 40777),