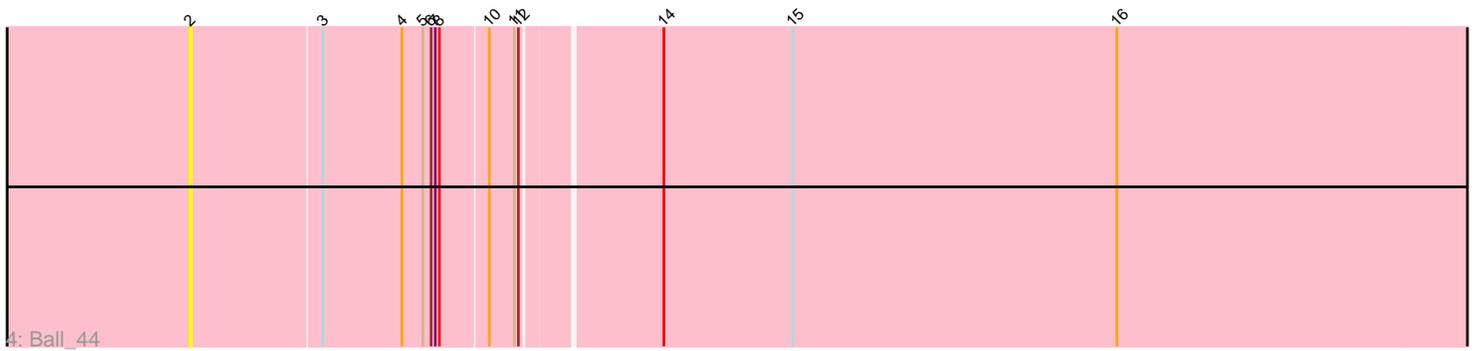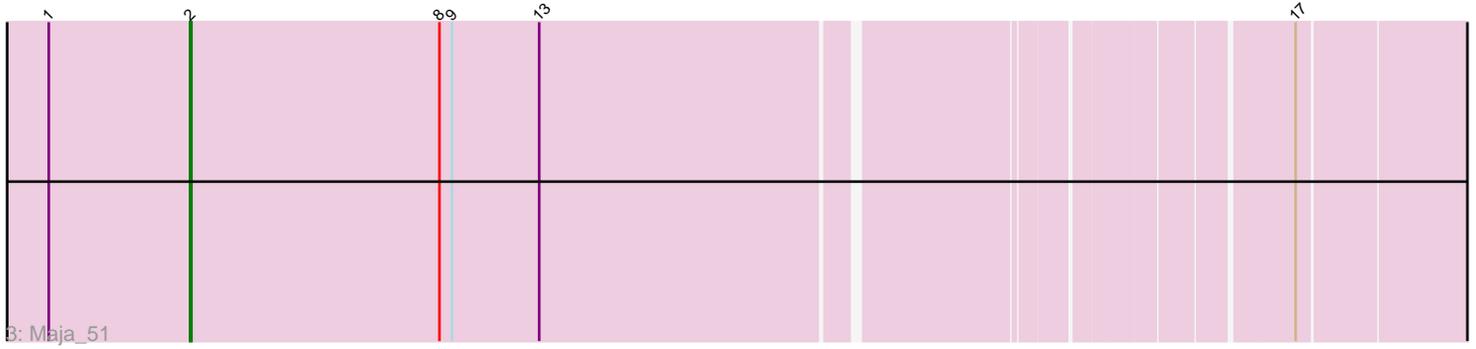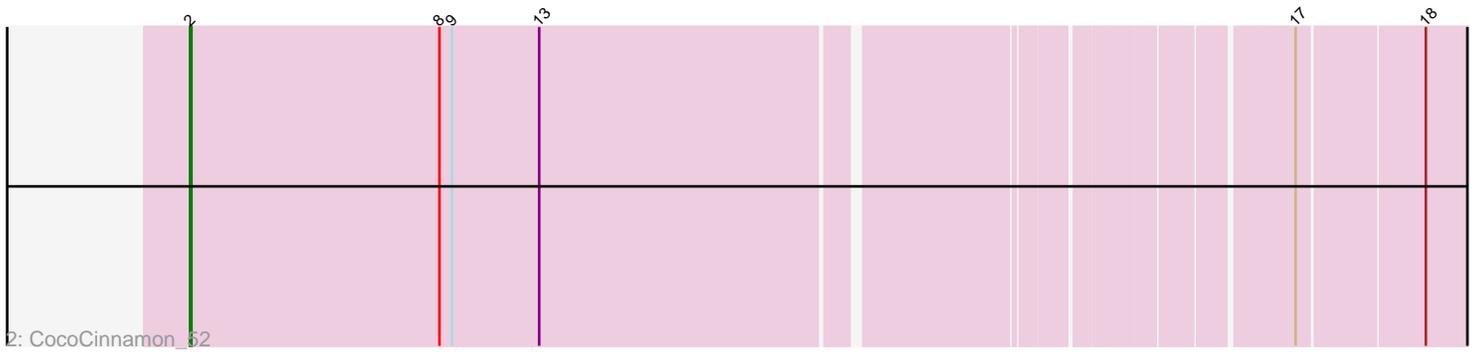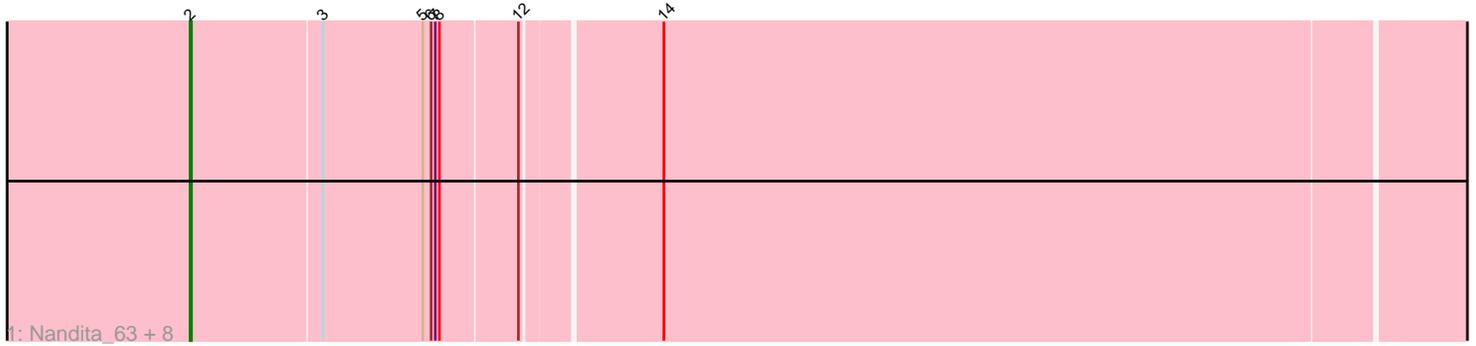# Pham 284368

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 284368 Report

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

Pham number 284368 has 12 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Nandita_63, Kihatsu_64, Dirtdigger_60, Ryan_64, Lenoxika_60, ToastyOats_63, Ichiang_60, Donatella_63, Yonex_64
• Track 2 : CocoCinnamon_52
• Track 3 : Maja_51
• Track 4 : Ball_44

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 7 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ball_44, CocoCinnamon_52, Dirtdigger_60, Donatella_63, Ichiang_60, Kihatsu_64, Lenoxika_60, Maja_51, Nandita_63, Ryan_64, ToastyOats_63, Yonex_64,

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 12 of 12 (100.0%) of genes in pham
• Manual Annotations of this start: 7 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ball_44 (singleton), CocoCinnamon_52 (FO), Dirtdigger_60 (FF), Donatella_63 (FF), Ichiang_60 (FF), Kihatsu_64 (FF), Lenoxika_60 (FF), Maja_51 (FO), Nandita_63 (FF), Ryan_64 (FF), ToastyOats_63 (FF), Yonex_64 (FF),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, FF, FO,

Info for manual annotations of cluster FF:
•Start number 2 was manually annotated 5 times for cluster FF.

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

Gene Information:

Gene: Ball_44 Start: 31651, Stop: 32676, Start Num: 2
Candidate Starts for Ball_44:
(Start: 2 @31651 has 7 MA's), (3, 31744), (4, 31801), (5, 31816), (6, 31822), (7, 31825), (8, 31828), (10, 31861), (11, 31879), (12, 31882), (14, 31975), (15, 32068), (16, 32302),

Gene: CocoCinnamon_52 Start: 32925, Stop: 33902, Start Num: 2
Candidate Starts for CocoCinnamon_52:
(Start: 2 @32925 has 7 MA's), (8, 33105), (9, 33114), (13, 33177), (17, 33675), (18, 33762),

Gene: Dirtdigger_60 Start: 38872, Stop: 39894, Start Num: 2
Candidate Starts for Dirtdigger_60:
(Start: 2 @38872 has 7 MA's), (3, 38965), (5, 39037), (6, 39043), (7, 39046), (8, 39049), (12, 39103), (14, 39196),

Gene: Donatella_63 Start: 39063, Stop: 40085, Start Num: 2
Candidate Starts for Donatella_63:
(Start: 2 @39063 has 7 MA's), (3, 39156), (5, 39228), (6, 39234), (7, 39237), (8, 39240), (12, 39294), (14, 39387),

Gene: Ichiang_60 Start: 38423, Stop: 39445, Start Num: 2
Candidate Starts for Ichiang_60:
(Start: 2 @38423 has 7 MA's), (3, 38516), (5, 38588), (6, 38594), (7, 38597), (8, 38600), (12, 38654), (14, 38747),

Gene: Kihatsu_64 Start: 39971, Stop: 40993, Start Num: 2
Candidate Starts for Kihatsu_64:
(Start: 2 @39971 has 7 MA's), (3, 40064), (5, 40136), (6, 40142), (7, 40145), (8, 40148), (12, 40202), (14, 40295),

Gene: Lenoxika_60 Start: 38298, Stop: 39320, Start Num: 2
Candidate Starts for Lenoxika_60:
(Start: 2 @38298 has 7 MA's), (3, 38391), (5, 38463), (6, 38469), (7, 38472), (8, 38475), (12, 38529), (14, 38622),

Gene: Maja_51 Start: 33550, Stop: 34527, Start Num: 2
Candidate Starts for Maja_51:
(1, 33448), (Start: 2 @33550 has 7 MA's), (8, 33730), (9, 33739), (13, 33802), (17, 34300),

Gene: Nandita_63 Start: 38985, Stop: 40007, Start Num: 2
Candidate Starts for Nandita_63:

(Start: 2 @38985 has 7 MA's), (3, 39078), (5, 39150), (6, 39156), (7, 39159), (8, 39162), (12, 39216), (14, 39309),

Gene: Ryan_64 Start: 39538, Stop: 40560, Start Num: 2
Candidate Starts for Ryan_64:
(Start: 2 @39538 has 7 MA's), (3, 39631), (5, 39703), (6, 39709), (7, 39712), (8, 39715), (12, 39769), (14, 39862),

Gene: ToastyOats_63 Start: 38718, Stop: 39740, Start Num: 2
Candidate Starts for ToastyOats_63:
(Start: 2 @38718 has 7 MA's), (3, 38811), (5, 38883), (6, 38889), (7, 38892), (8, 38895), (12, 38949), (14, 39042),

Gene: Yonex_64 Start: 39538, Stop: 40560, Start Num: 2
Candidate Starts for Yonex_64:
(Start: 2 @39538 has 7 MA's), (3, 39631), (5, 39703), (6, 39709), (7, 39712), (8, 39715), (12, 39769), (14, 39862),