Pham 88756

1: YoungHarleezy_37 + 2

2: BillyTR_38

3: Sakai_37 + 3

4: MidnightRain_39
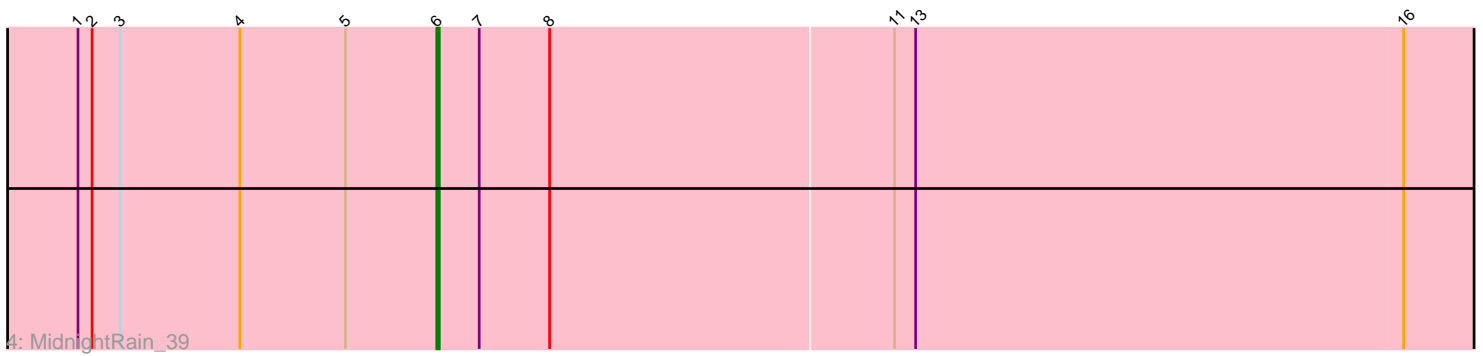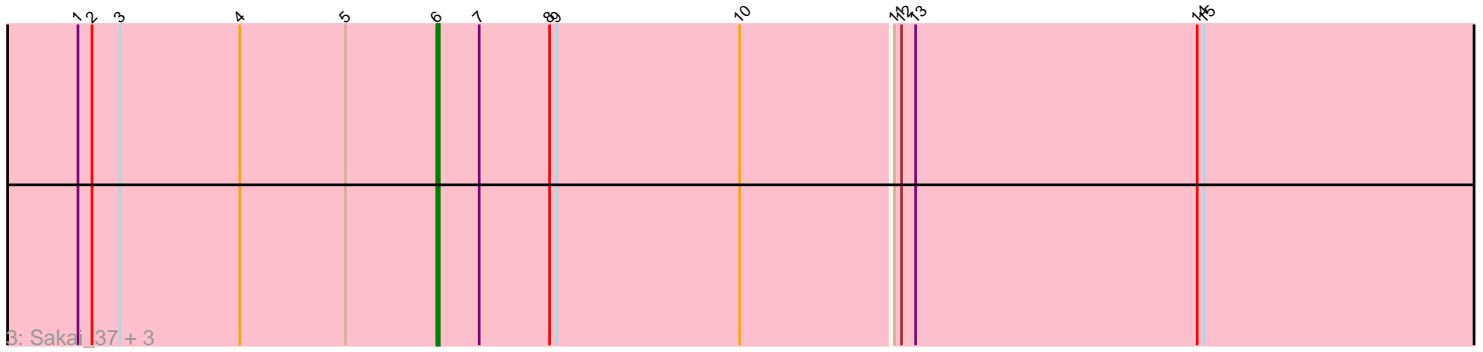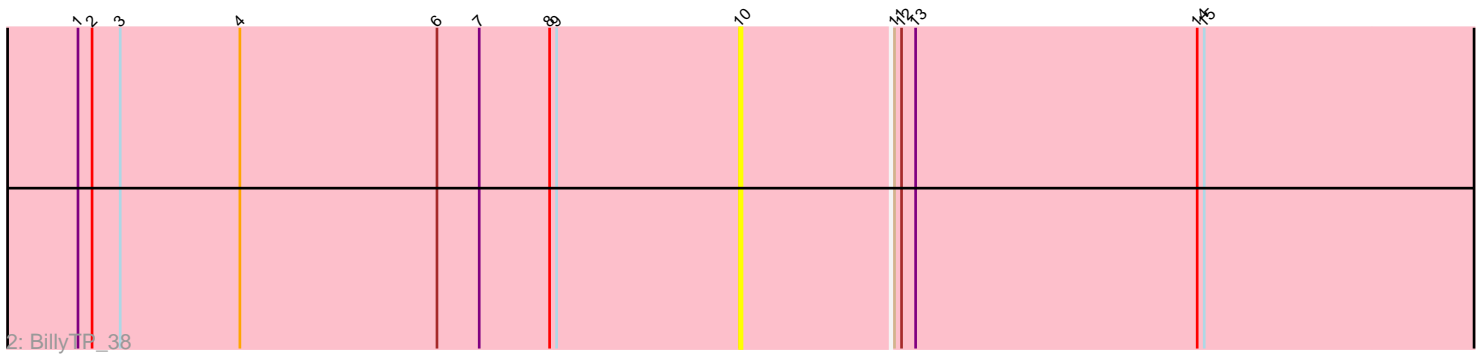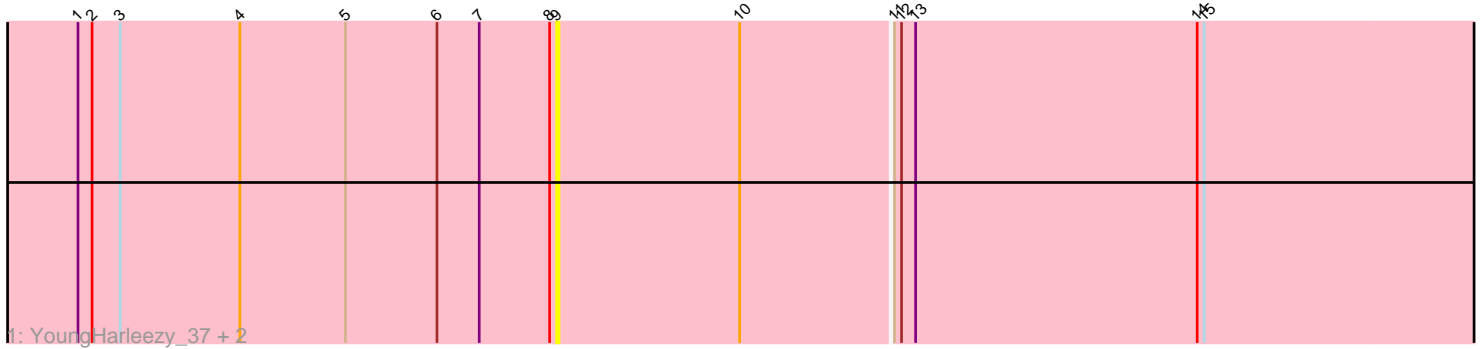
Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 88756 Report

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

Pham number 88756 has 9 members, 4 are drafts.

Phages represented in each track:
• Track 1 : YoungHarleezy_37, Raphaella_38, Aikyam_34
• Track 2 : BillyTP_38
• Track 3 : Sakai_37, Gorpy_38, Auxilium_35, Richie_37
• Track 4 : MidnightRain_39

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

The start number called the most often in the published annotations is 6, it was called in 5 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Auxilium_35, Gorpy_38, MidnightRain_39, Richie_37, Sakai_37,

Genes that have the "Most Annotated" start but do not call it:
• Aikyam_34, BillyTP_38, Raphaella_38, YoungHarleezy_37,

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

Summary by start number:

Start 6:
• Found in 9 of 9 (100.0%) of genes in pham
• Manual Annotations of this start: 5 of 5
• Called 55.6% of time when present
• Phage (with cluster) where this start called: Auxilium_35 (AY), Gorpy_38 (AY), MidnightRain_39 (AY), Richie_37 (AY), Sakai_37 (AY),

Start 9:
• Found in 8 of 9 (88.9%) of genes in pham
• No Manual Annotations of this start.
• Called 37.5% of time when present
• Phage (with cluster) where this start called: Aikyam_34 (AY), Raphaella_38 (AY), YoungHarleezy_37 (AY),

Start 10:
• Found in 8 of 9 (88.9%) of genes in pham
• No Manual Annotations of this start.
• Called 12.5% of time when present
• Phage (with cluster) where this start called: BillyTP_38 (AY),

Summary by clusters:

There is one cluster represented in this pham: AY

Info for manual annotations of cluster AY:
•Start number 6 was manually annotated 5 times for cluster AY.

Gene Information:
Gene: Aikyam_34 Start: 23389, Stop: 23847, Start Num: 9
Candidate Starts for Aikyam_34:
(1, 23185), (2, 23191), (3, 23203), (4, 23254), (5, 23299), (Start: 6 @23338 has 5 MA's), (7, 23356), (8, 23386), (9, 23389), (10, 23467), (11, 23530), (12, 23533), (13, 23539), (14, 23659), (15, 23662),

Gene: Auxilium_35 Start: 23040, Stop: 23549, Start Num: 6
Candidate Starts for Auxilium_35:
(1, 22887), (2, 22893), (3, 22905), (4, 22956), (5, 23001), (Start: 6 @23040 has 5 MA's), (7, 23058), (8, 23088), (9, 23091), (10, 23169), (11, 23232), (12, 23235), (13, 23241), (14, 23361), (15, 23364),

Gene: BillyTP_38 Start: 26365, Stop: 26745, Start Num: 10
Candidate Starts for BillyTP_38:
(1, 26083), (2, 26089), (3, 26101), (4, 26152), (Start: 6 @26236 has 5 MA's), (7, 26254), (8, 26284), (9, 26287), (10, 26365), (11, 26428), (12, 26431), (13, 26437), (14, 26557), (15, 26560),

Gene: Gorpy_38 Start: 26732, Stop: 27241, Start Num: 6
Candidate Starts for Gorpy_38:
(1, 26579), (2, 26585), (3, 26597), (4, 26648), (5, 26693), (Start: 6 @26732 has 5 MA's), (7, 26750), (8, 26780), (9, 26783), (10, 26861), (11, 26924), (12, 26927), (13, 26933), (14, 27053), (15, 27056),

Gene: MidnightRain_39 Start: 26311, Stop: 26814, Start Num: 6
Candidate Starts for MidnightRain_39:
(1, 26158), (2, 26164), (3, 26176), (4, 26227), (5, 26272), (Start: 6 @26311 has 5 MA's), (7, 26329), (8, 26359), (11, 26503), (13, 26512), (16, 26719),

Gene: Raphaella_38 Start: 25485, Stop: 25943, Start Num: 9
Candidate Starts for Raphaella_38:
(1, 25281), (2, 25287), (3, 25299), (4, 25350), (5, 25395), (Start: 6 @25434 has 5 MA's), (7, 25452), (8, 25482), (9, 25485), (10, 25563), (11, 25626), (12, 25629), (13, 25635), (14, 25755), (15, 25758),

Gene: Richie_37 Start: 25515, Stop: 26024, Start Num: 6
Candidate Starts for Richie_37:
(1, 25362), (2, 25368), (3, 25380), (4, 25431), (5, 25476), (Start: 6 @25515 has 5 MA's), (7, 25533), (8, 25563), (9, 25566), (10, 25644), (11, 25707), (12, 25710), (13, 25716), (14, 25836), (15, 25839),

Gene: Sakai_37 Start: 25443, Stop: 25952, Start Num: 6
Candidate Starts for Sakai_37:
(1, 25290), (2, 25296), (3, 25308), (4, 25359), (5, 25404), (Start: 6 @25443 has 5 MA's), (7, 25461), (8, 25491), (9, 25494), (10, 25572), (11, 25635), (12, 25638), (13, 25644), (14, 25764), (15, 25767),

Gene: YoungHarleezy_37 Start: 25564, Stop: 26022, Start Num: 9
Candidate Starts for YoungHarleezy_37:
(1, 25360), (2, 25366), (3, 25378), (4, 25429), (5, 25474), (Start: 6 @25513 has 5 MA's), (7, 25531), (8, 25561), (9, 25564), (10, 25642), (11, 25705), (12, 25708), (13, 25714), (14, 25834), (15, 25837),