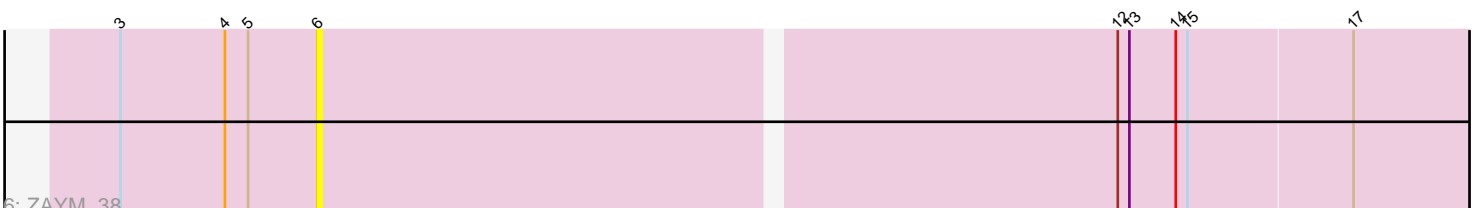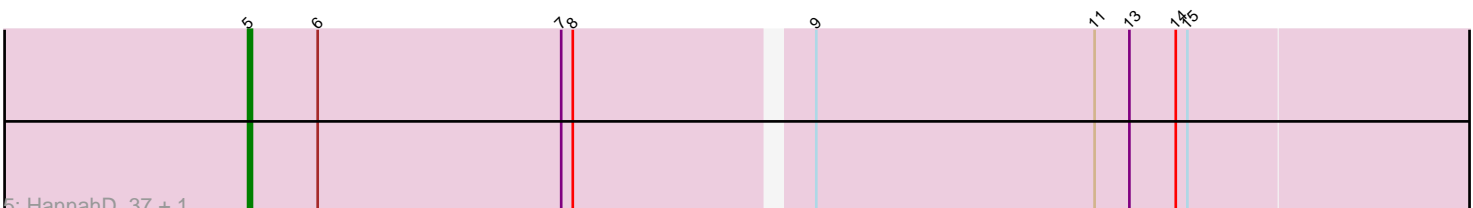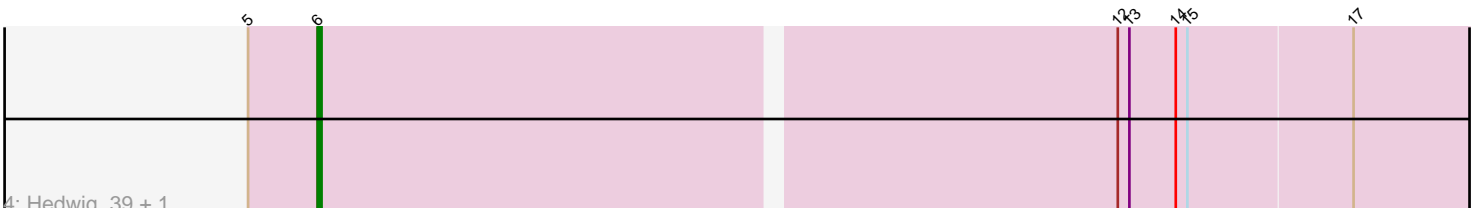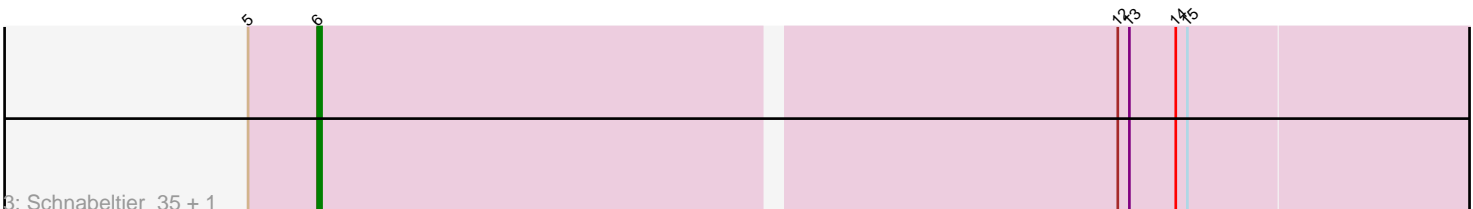# Pham 5993

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 5993 Report

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

Pham number 5993 has 11 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Mao1_104
• Track 2 : Dori_94
• Track 3 : Schnabeltier_35, MagicMan_36
• Track 4 : Hedwig_39, DirtyBoi_37
• Track 5 : HannahD_37, GEazy_39
• Track 6 : ZAYM_38
• Track 7 : Ruthy_36, DumpsterDude_38

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 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• DirtyBoi_37, Dori_94, DumpsterDude_38, Hedwig_39, MagicMan_36, Mao1_104, Ruthy_36, Schnabeltier_35, ZAYM_38,

Genes that have the "Most Annotated" start but do not call it:
• GEazy_39, HannahD_37,

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

Summary by start number:

Start 5:
• Found in 10 of 11 (90.9%) of genes in pham
• Manual Annotations of this start: 2 of 9
• Called 20.0% of time when present
• Phage (with cluster) where this start called: GEazy_39 (DB), HannahD_37 (DB),

Start 6:
• Found in 11 of 11 (100.0%) of genes in pham
• Manual Annotations of this start: 7 of 9

• Called 81.8% of time when present
• Phage (with cluster) where this start called: DirtyBoi_37 (DB), Dori_94 (AD), DumpsterDude_38 (DW), Hedwig_39 (DB), MagicMan_36 (DB), Mao1_104 (AD), Ruthy_36 (DW), Schnabeltier_35 (DB), ZAYM_38 (DB),

Summary by clusters:

There are 3 clusters represented in this pham: DW, DB, AD,

Info for manual annotations of cluster AD:
•Start number 6 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster DB:
•Start number 5 was manually annotated 2 times for cluster DB.
•Start number 6 was manually annotated 4 times for cluster DB.

Info for manual annotations of cluster DW:
•Start number 6 was manually annotated 2 times for cluster DW.

Gene Information:

Gene: DirtyBoi_37 Start: 29804, Stop: 29496, Start Num: 6
Candidate Starts for DirtyBoi_37:
(Start: 5 @29822 has 2 MA's), (Start: 6 @29804 has 7 MA's), (12, 29603), (13, 29600), (14, 29588), (15, 29585), (17, 29543),

Gene: Dori_94 Start: 64530, Stop: 64210, Start Num: 6
Candidate Starts for Dori_94:
(1, 64605), (2, 64590), (Start: 5 @64548 has 2 MA's), (Start: 6 @64530 has 7 MA's), (14, 64308), (15, 64305),

Gene: DumpsterDude_38 Start: 32440, Stop: 32132, Start Num: 6
Candidate Starts for DumpsterDude_38:
(Start: 5 @32458 has 2 MA's), (Start: 6 @32440 has 7 MA's), (9, 32317), (11, 32245), (13, 32236), (14, 32224), (15, 32221), (16, 32200),

Gene: GEazy_39 Start: 30023, Stop: 29697, Start Num: 5
Candidate Starts for GEazy_39:
(Start: 5 @30023 has 2 MA's), (Start: 6 @30005 has 7 MA's), (7, 29942), (8, 29939), (9, 29882), (11, 29810), (13, 29801), (14, 29789), (15, 29786),

Gene: HannahD_37 Start: 29388, Stop: 29062, Start Num: 5
Candidate Starts for HannahD_37:
(Start: 5 @29388 has 2 MA's), (Start: 6 @29370 has 7 MA's), (7, 29307), (8, 29304), (9, 29247), (11, 29175), (13, 29166), (14, 29154), (15, 29151),

Gene: Hedwig_39 Start: 30227, Stop: 29919, Start Num: 6
Candidate Starts for Hedwig_39:
(Start: 5 @30245 has 2 MA's), (Start: 6 @30227 has 7 MA's), (12, 30026), (13, 30023), (14, 30011), (15, 30008), (17, 29966),

Gene: MagicMan_36 Start: 30363, Stop: 30055, Start Num: 6
Candidate Starts for MagicMan_36:
(Start: 5 @30381 has 2 MA's), (Start: 6 @30363 has 7 MA's), (12, 30162), (13, 30159), (14, 30147), (15, 30144),

Gene: Mao1_104 Start: 65112, Stop: 64792, Start Num: 6
Candidate Starts for Mao1_104:
(Start: 6 @65112 has 7 MA's), (10, 64938), (14, 64890), (15, 64887),

Gene: Ruthy_36 Start: 30158, Stop: 29850, Start Num: 6
Candidate Starts for Ruthy_36:
(Start: 5 @30176 has 2 MA's), (Start: 6 @30158 has 7 MA's), (9, 30035), (11, 29963), (13, 29954), (14, 29942), (15, 29939), (16, 29918),

Gene: Schnabeltier_35 Start: 29993, Stop: 29685, Start Num: 6
Candidate Starts for Schnabeltier_35:
(Start: 5 @30011 has 2 MA's), (Start: 6 @29993 has 7 MA's), (12, 29792), (13, 29789), (14, 29777), (15, 29774),

Gene: ZAYM_38 Start: 29977, Stop: 29669, Start Num: 6
Candidate Starts for ZAYM_38:
(3, 30028), (4, 30001), (Start: 5 @29995 has 2 MA's), (Start: 6 @29977 has 7 MA's), (12, 29776), (13, 29773), (14, 29761), (15, 29758), (17, 29716),