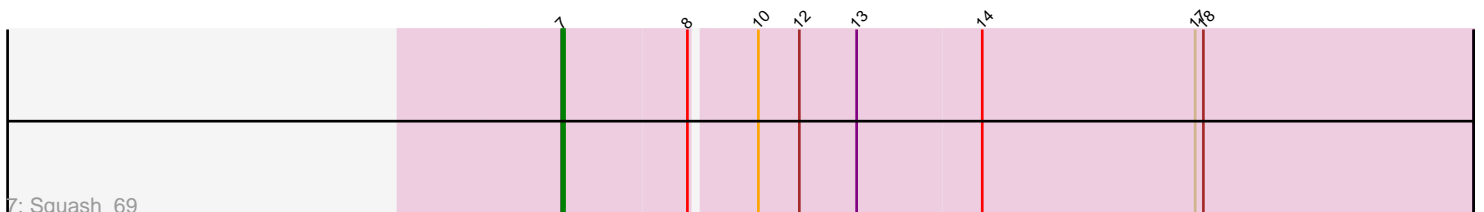
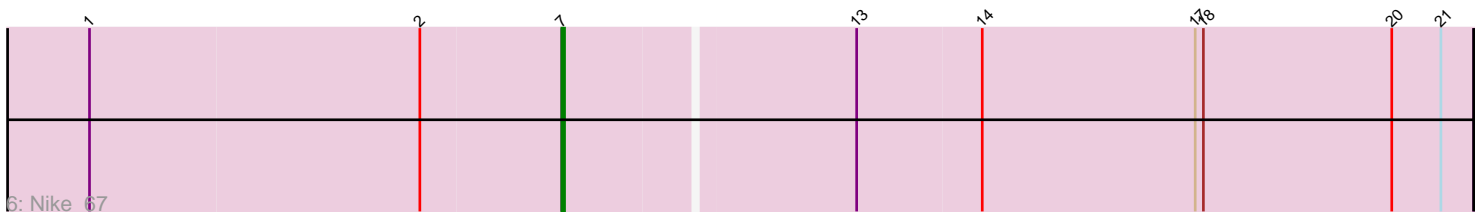
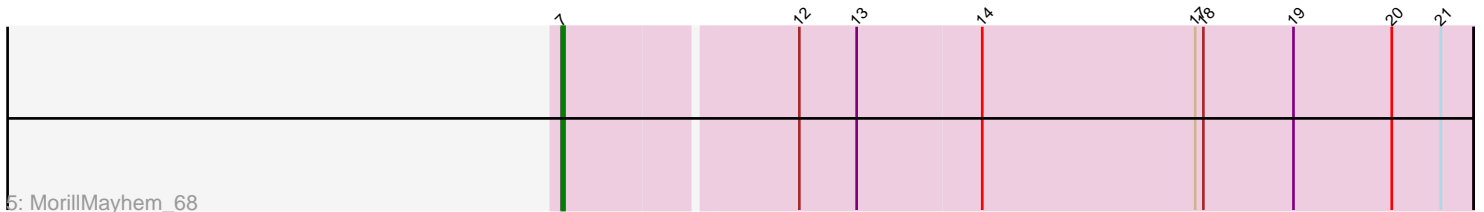
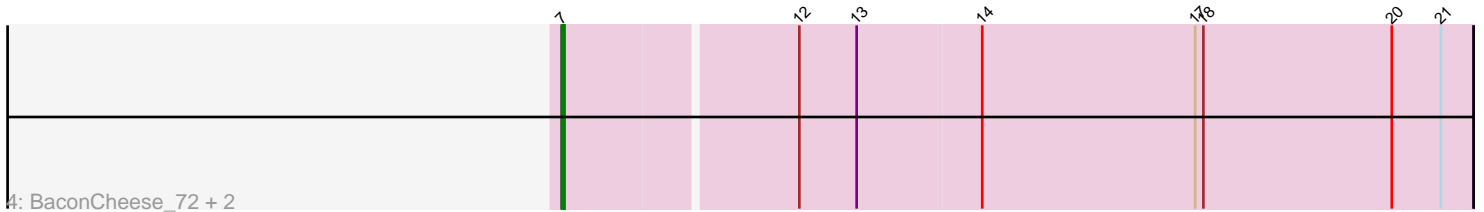
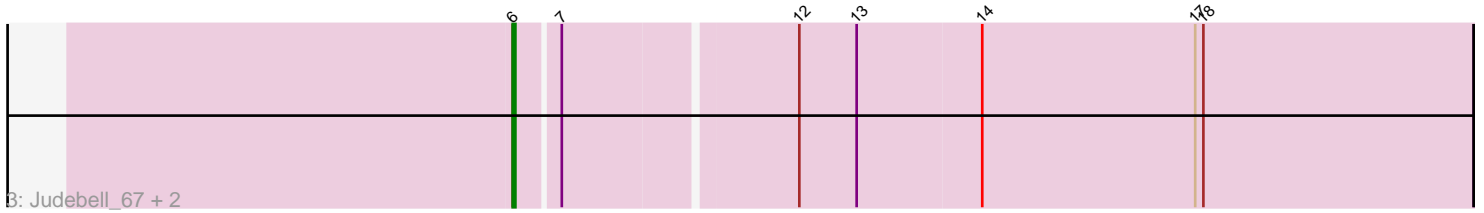
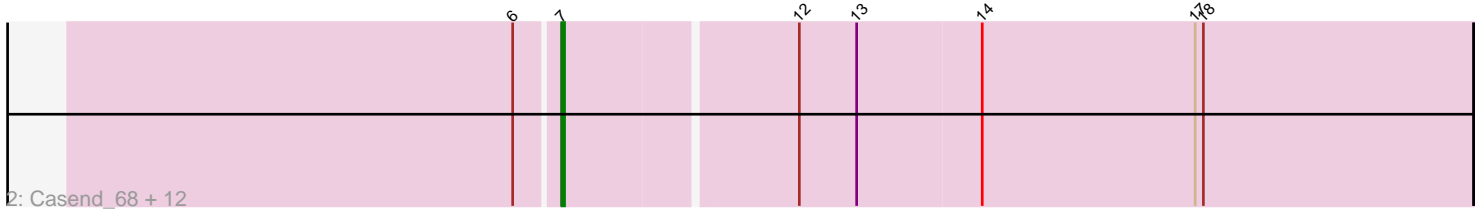
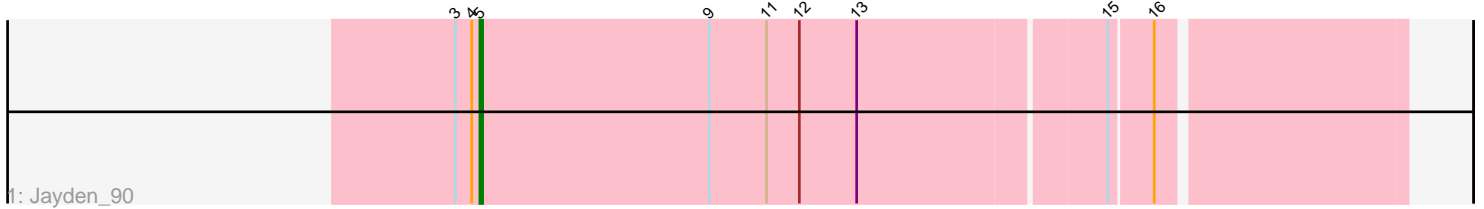


Pham 309230



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 309230 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309230 has 23 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Jayden_90
- Track 2 : Casend_68, Teehee_68, Llemily_67, DonaldDuck_67, Sillytadpoles_68, Jehoshaphat_69, Phabia_67, Quammi_65, Viceroy_66, Rudy_65, Wayne3_69, Wheelie_67, EverythinBagel_66
- Track 3 : Judebell_67, Zhafia_70, FrankDeliGuy_64
- Track 4 : BaconCheese_72, Mila11_70, Lonelysoil_64
- Track 5 : MorillMayhem_68
- Track 6 : Nike_67
- Track 7 : Squash_69

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

The start number called the most often in the published annotations is 7, it was called in 17 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BaconCheese_72, Casend_68, DonaldDuck_67, EverythinBagel_66, Jehoshaphat_69, Llemily_67, Lonelysoil_64, Mila11_70, MorillMayhem_68, Nike_67, Phabia_67, Quammi_65, Rudy_65, Sillytadpoles_68, Squash_69, Teehee_68, Viceroy_66, Wayne3_69, Wheelie_67,

Genes that have the "Most Annotated" start but do not call it:

- FrankDeliGuy_64, Judebell_67, Zhafia_70,

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

- Jayden_90,

Summary by start number:

Start 5:

- Found in 1 of 23 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jayden_90 (EC),

Start 6:

- Found in 16 of 23 (69.6%) of genes in pham
- Manual Annotations of this start: 3 of 21
- Called 18.8% of time when present
- Phage (with cluster) where this start called: FrankDeliGuy_64 (EG), Judebell_67 (EG), Zhafia_70 (EG),

Start 7:

- Found in 22 of 23 (95.7%) of genes in pham
- Manual Annotations of this start: 17 of 21
- Called 86.4% of time when present
- Phage (with cluster) where this start called: BaconCheese_72 (EG), Casend_68 (EG), DonaldDuck_67 (EG), EverythinBagel_66 (EG), Jehoshaphat_69 (EG), Llemily_67 (EG), Lonelysoil_64 (EG), Mila11_70 (EG), MorillMayhem_68 (EG), Nike_67 (EG), Phabia_67 (EG), Quammi_65 (EG), Rudy_65 (EG), Sillytadpoles_68 (EG), Squash_69 (EG), Teehee_68 (EG), Viceroy_66 (EG), Wayne3_69 (EG), Wheelie_67 (EG),

Summary by clusters:

There are 2 clusters represented in this pham: EG, EC,

Info for manual annotations of cluster EC:

- Start number 5 was manually annotated 1 time for cluster EC.

Info for manual annotations of cluster EG:

- Start number 6 was manually annotated 3 times for cluster EG.
- Start number 7 was manually annotated 17 times for cluster EG.

Gene Information:

Gene: BaconCheese_72 Start: 46882, Stop: 46556, Start Num: 7

Candidate Starts for BaconCheese_72:

(Start: 7 @46882 has 17 MA's), (12, 46801), (13, 46780), (14, 46735), (17, 46657), (18, 46654), (20, 46585), (21, 46567),

Gene: Casend_68 Start: 45792, Stop: 45466, Start Num: 7

Candidate Starts for Casend_68:

(Start: 6 @45807 has 3 MA's), (Start: 7 @45792 has 17 MA's), (12, 45711), (13, 45690), (14, 45645), (17, 45567), (18, 45564),

Gene: DonaldDuck_67 Start: 45141, Stop: 44815, Start Num: 7

Candidate Starts for DonaldDuck_67:

(Start: 6 @45156 has 3 MA's), (Start: 7 @45141 has 17 MA's), (12, 45060), (13, 45039), (14, 44994), (17, 44916), (18, 44913),

Gene: EverythinBagel_66 Start: 45622, Stop: 45296, Start Num: 7

Candidate Starts for EverythinBagel_66:

(Start: 6 @45637 has 3 MA's), (Start: 7 @45622 has 17 MA's), (12, 45541), (13, 45520), (14, 45475), (17, 45397), (18, 45394),

Gene: FrankDeliGuy_64 Start: 45251, Stop: 44910, Start Num: 6
Candidate Starts for FrankDeliGuy_64:
(Start: 6 @45251 has 3 MA's), (Start: 7 @45236 has 17 MA's), (12, 45155), (13, 45134), (14, 45089),
(17, 45011), (18, 45008),

Gene: Jayden_90 Start: 52282, Stop: 52608, Start Num: 5
Candidate Starts for Jayden_90:
(3, 52273), (4, 52279), (Start: 5 @52282 has 1 MA's), (9, 52366), (11, 52387), (12, 52399), (13, 52420),
(15, 52507), (16, 52522),

Gene: Jehoshaphat_69 Start: 46060, Stop: 45734, Start Num: 7
Candidate Starts for Jehoshaphat_69:
(Start: 6 @46075 has 3 MA's), (Start: 7 @46060 has 17 MA's), (12, 45979), (13, 45958), (14, 45913),
(17, 45835), (18, 45832),

Gene: Judebell_67 Start: 45256, Stop: 44915, Start Num: 6
Candidate Starts for Judebell_67:
(Start: 6 @45256 has 3 MA's), (Start: 7 @45241 has 17 MA's), (12, 45160), (13, 45139), (14, 45094),
(17, 45016), (18, 45013),

Gene: Llemily_67 Start: 44836, Stop: 44510, Start Num: 7
Candidate Starts for Llemily_67:
(Start: 6 @44851 has 3 MA's), (Start: 7 @44836 has 17 MA's), (12, 44755), (13, 44734), (14, 44689),
(17, 44611), (18, 44608),

Gene: Lonelysoil_64 Start: 44712, Stop: 44386, Start Num: 7
Candidate Starts for Lonelysoil_64:
(Start: 7 @44712 has 17 MA's), (12, 44631), (13, 44610), (14, 44565), (17, 44487), (18, 44484), (20,
44415), (21, 44397),

Gene: Mila11_70 Start: 46934, Stop: 46608, Start Num: 7
Candidate Starts for Mila11_70:
(Start: 7 @46934 has 17 MA's), (12, 46853), (13, 46832), (14, 46787), (17, 46709), (18, 46706), (20,
46637), (21, 46619),

Gene: MorillMayhem_68 Start: 45772, Stop: 45446, Start Num: 7
Candidate Starts for MorillMayhem_68:
(Start: 7 @45772 has 17 MA's), (12, 45691), (13, 45670), (14, 45625), (17, 45547), (18, 45544), (19,
45511), (20, 45475), (21, 45457),

Gene: Nike_67 Start: 46272, Stop: 45946, Start Num: 7
Candidate Starts for Nike_67:
(1, 46443), (2, 46323), (Start: 7 @46272 has 17 MA's), (13, 46170), (14, 46125), (17, 46047), (18,
46044), (20, 45975), (21, 45957),

Gene: Phabia_67 Start: 45251, Stop: 44925, Start Num: 7
Candidate Starts for Phabia_67:
(Start: 6 @45266 has 3 MA's), (Start: 7 @45251 has 17 MA's), (12, 45170), (13, 45149), (14, 45104),
(17, 45026), (18, 45023),

Gene: Quammi_65 Start: 44951, Stop: 44625, Start Num: 7
Candidate Starts for Quammi_65:

(Start: 6 @44966 has 3 MA's), (Start: 7 @44951 has 17 MA's), (12, 44870), (13, 44849), (14, 44804), (17, 44726), (18, 44723),

Gene: Rudy_65 Start: 44987, Stop: 44661, Start Num: 7

Candidate Starts for Rudy_65:

(Start: 6 @45002 has 3 MA's), (Start: 7 @44987 has 17 MA's), (12, 44906), (13, 44885), (14, 44840), (17, 44762), (18, 44759),

Gene: Sillytadpoles_68 Start: 44824, Stop: 44498, Start Num: 7

Candidate Starts for Sillytadpoles_68:

(Start: 6 @44839 has 3 MA's), (Start: 7 @44824 has 17 MA's), (12, 44743), (13, 44722), (14, 44677), (17, 44599), (18, 44596),

Gene: Squash_69 Start: 46110, Stop: 45784, Start Num: 7

Candidate Starts for Squash_69:

(Start: 7 @46110 has 17 MA's), (8, 46065), (10, 46044), (12, 46029), (13, 46008), (14, 45963), (17, 45885), (18, 45882),

Gene: Teehee_68 Start: 46057, Stop: 45731, Start Num: 7

Candidate Starts for Teehee_68:

(Start: 6 @46072 has 3 MA's), (Start: 7 @46057 has 17 MA's), (12, 45976), (13, 45955), (14, 45910), (17, 45832), (18, 45829),

Gene: Viceroy_66 Start: 44957, Stop: 44631, Start Num: 7

Candidate Starts for Viceroy_66:

(Start: 6 @44972 has 3 MA's), (Start: 7 @44957 has 17 MA's), (12, 44876), (13, 44855), (14, 44810), (17, 44732), (18, 44729),

Gene: Wayne3_69 Start: 45820, Stop: 45494, Start Num: 7

Candidate Starts for Wayne3_69:

(Start: 6 @45835 has 3 MA's), (Start: 7 @45820 has 17 MA's), (12, 45739), (13, 45718), (14, 45673), (17, 45595), (18, 45592),

Gene: Wheelie_67 Start: 45141, Stop: 44815, Start Num: 7

Candidate Starts for Wheelie_67:

(Start: 6 @45156 has 3 MA's), (Start: 7 @45141 has 17 MA's), (12, 45060), (13, 45039), (14, 44994), (17, 44916), (18, 44913),

Gene: Zhafia_70 Start: 45636, Stop: 45295, Start Num: 6

Candidate Starts for Zhafia_70:

(Start: 6 @45636 has 3 MA's), (Start: 7 @45621 has 17 MA's), (12, 45540), (13, 45519), (14, 45474), (17, 45396), (18, 45393),