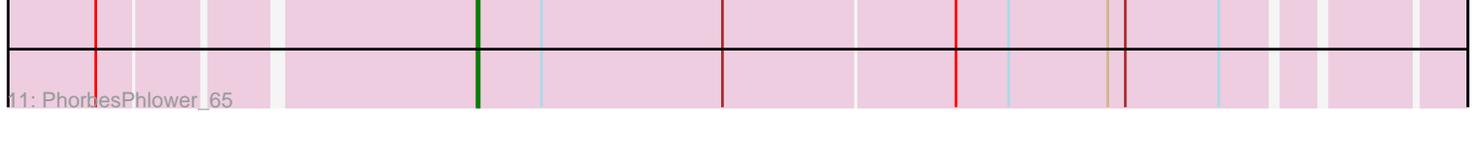
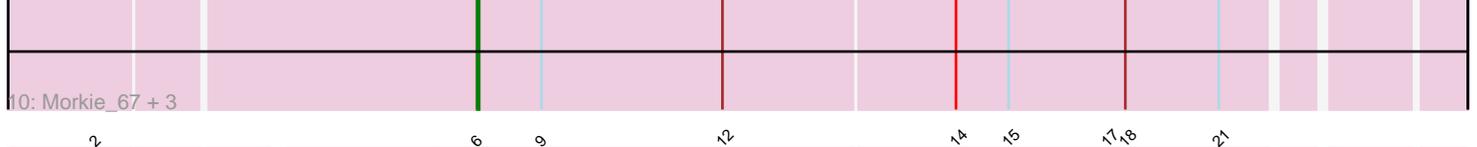
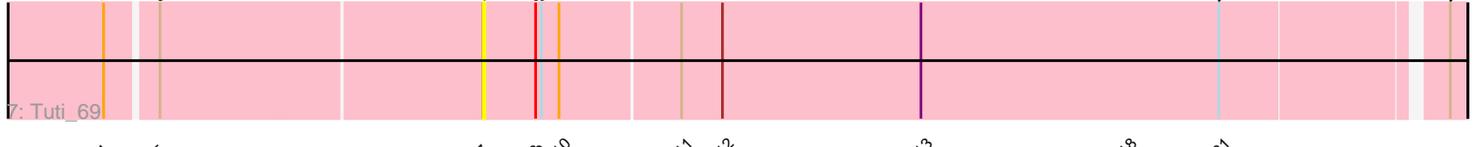
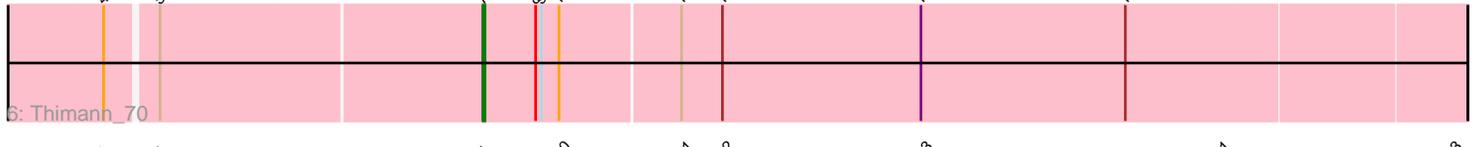
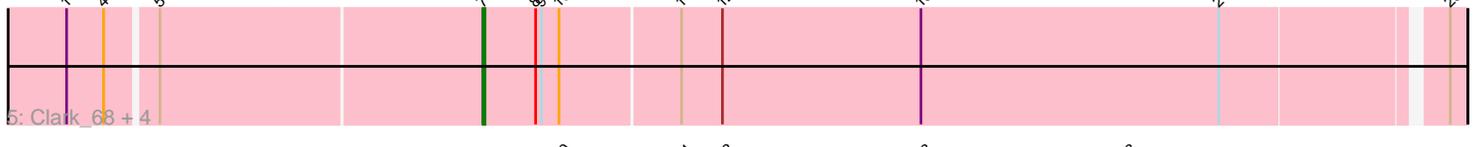
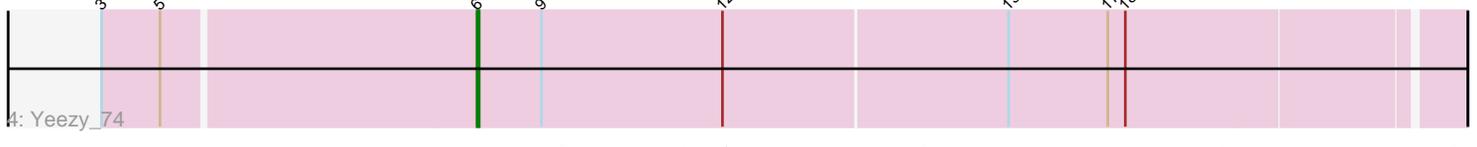
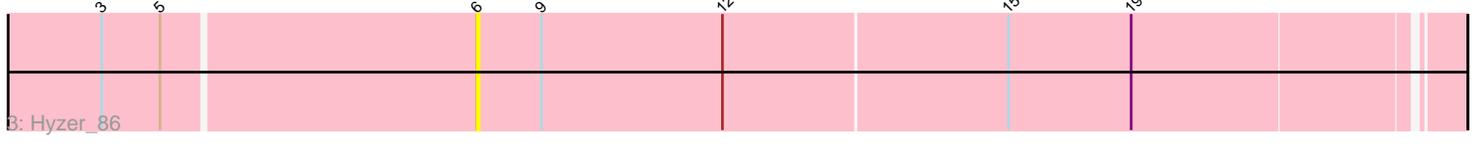
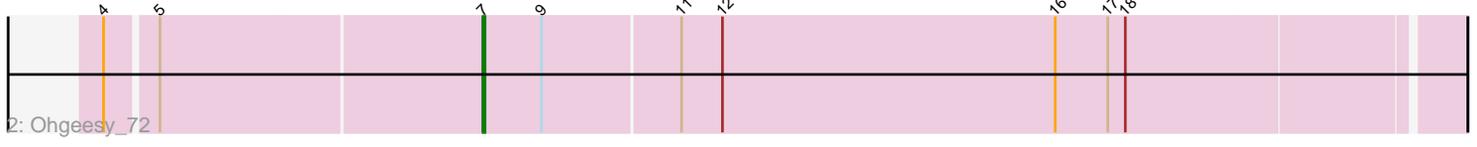
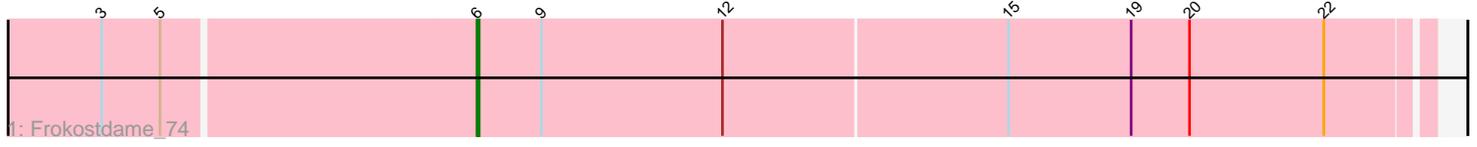


Pham 291586



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 291586 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291586 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Frokostdame_74
- Track 2 : Ohgeesy_72
- Track 3 : Hyzer_86
- Track 4 : Yeezy_74
- Track 5 : Clark_68, Invectra_72, Beenie_63, Samman98_70, MichaelScott_70
- Track 6 : Thimann_70
- Track 7 : Tuti_69
- Track 8 : Easley_67
- Track 9 : Oregano_69
- Track 10 : Morkie_67, OneDirection_61, Lton_64, Kuwabara_85
- Track 11 : PhorbesPhlower_65

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 9 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beenie_63, Clark_68, Easley_67, Invectra_72, MichaelScott_70, Ohgeesy_72, Oregano_69, Samman98_70, Thimann_70, Tuti_69,

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

-

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

- Frokostdame_74, Hyzer_86, Kuwabara_85, Lton_64, Morkie_67, OneDirection_61, PhorbesPhlower_65, Yeezy_74,

Summary by start number:

Start 6:

- Found in 8 of 18 (44.4%) of genes in pham
- Manual Annotations of this start: 7 of 16
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Frokostdame_74 (CV), Hyzer_86 (CZ1), Kuwabara_85 (DN4), Lton_64 (CZ), Morkie_67 (DH), OneDirection_61 (CZ6), PhorbesPhlower_65 (DH), Yeezy_74 (CZ3),

Start 7:

- Found in 10 of 18 (55.6%) of genes in pham
- Manual Annotations of this start: 9 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beenie_63 (CZ4), Clark_68 (CZ4), Easley_67 (CZ4), Invectra_72 (CZ4), MichaelScott_70 (CZ4), Ohgeesy_72 (CZ), Oregano_69 (CZ4), Samman98_70 (CZ4), Thimann_70 (CZ4), Tuti_69 (CZ4),

Summary by clusters:

There are 8 clusters represented in this pham: DH, DN4, CZ3, CZ1, CZ6, CZ4, CZ, CV,

Info for manual annotations of cluster CV:

- Start number 6 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CZ:

- Start number 6 was manually annotated 1 time for cluster CZ.
- Start number 7 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ3:

- Start number 6 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 7 was manually annotated 8 times for cluster CZ4.

Info for manual annotations of cluster CZ6:

- Start number 6 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DH:

- Start number 6 was manually annotated 2 times for cluster DH.

Info for manual annotations of cluster DN4:

- Start number 6 was manually annotated 1 time for cluster DN4.

Gene Information:

Gene: Beenie_63 Start: 44040, Stop: 44528, Start Num: 7

Candidate Starts for Beenie_63:

(1, 43836), (4, 43854), (5, 43878), (Start: 7 @44040 has 9 MA's), (8, 44067), (9, 44070), (10, 44079), (11, 44139), (12, 44160), (13, 44262), (21, 44415), (23, 44520),

Gene: Clark_68 Start: 43803, Stop: 44291, Start Num: 7

Candidate Starts for Clark_68:

(1, 43599), (4, 43617), (5, 43641), (Start: 7 @43803 has 9 MA's), (8, 43830), (9, 43833), (10, 43842), (11, 43902), (12, 43923), (13, 44025), (21, 44178), (23, 44283),

Gene: Easley_67 Start: 42795, Stop: 43292, Start Num: 7

Candidate Starts for Easley_67:

(4, 42609), (5, 42633), (Start: 7 @42795 has 9 MA's), (8, 42822), (9, 42825), (10, 42834), (11, 42894), (12, 42915), (13, 43017), (18, 43122), (21, 43170),

Gene: Frokostdame_74 Start: 47068, Stop: 47550, Start Num: 6

Candidate Starts for Frokostdame_74:

(3, 46882), (5, 46912), (Start: 6 @47068 has 7 MA's), (9, 47101), (12, 47194), (15, 47338), (19, 47401), (20, 47431), (22, 47500),

Gene: Hyzer_86 Start: 55452, Stop: 55943, Start Num: 6

Candidate Starts for Hyzer_86:

(3, 55266), (5, 55296), (Start: 6 @55452 has 7 MA's), (9, 55485), (12, 55578), (15, 55722), (19, 55785),

Gene: Invectra_72 Start: 45376, Stop: 45864, Start Num: 7

Candidate Starts for Invectra_72:

(1, 45172), (4, 45190), (5, 45214), (Start: 7 @45376 has 9 MA's), (8, 45403), (9, 45406), (10, 45415), (11, 45475), (12, 45496), (13, 45598), (21, 45751), (23, 45856),

Gene: Kuwabara_85 Start: 50759, Stop: 51244, Start Num: 6

Candidate Starts for Kuwabara_85:

(Start: 6 @50759 has 7 MA's), (9, 50792), (12, 50885), (14, 51002), (15, 51029), (18, 51089), (21, 51137),

Gene: Lton_64 Start: 37912, Stop: 38397, Start Num: 6

Candidate Starts for Lton_64:

(Start: 6 @37912 has 7 MA's), (9, 37945), (12, 38038), (14, 38155), (15, 38182), (18, 38242), (21, 38290),

Gene: MichaelScott_70 Start: 44484, Stop: 44972, Start Num: 7

Candidate Starts for MichaelScott_70:

(1, 44280), (4, 44298), (5, 44322), (Start: 7 @44484 has 9 MA's), (8, 44511), (9, 44514), (10, 44523), (11, 44583), (12, 44604), (13, 44706), (21, 44859), (23, 44964),

Gene: Morkie_67 Start: 39060, Stop: 39545, Start Num: 6

Candidate Starts for Morkie_67:

(Start: 6 @39060 has 7 MA's), (9, 39093), (12, 39186), (14, 39303), (15, 39330), (18, 39390), (21, 39438),

Gene: Ohgeesy_72 Start: 48265, Stop: 48756, Start Num: 7

Candidate Starts for Ohgeesy_72:

(4, 48079), (5, 48103), (Start: 7 @48265 has 9 MA's), (9, 48295), (11, 48364), (12, 48385), (16, 48556), (17, 48583), (18, 48592),

Gene: OneDirection_61 Start: 36474, Stop: 36959, Start Num: 6

Candidate Starts for OneDirection_61:

(Start: 6 @36474 has 7 MA's), (9, 36507), (12, 36600), (14, 36717), (15, 36744), (18, 36804), (21, 36852),

Gene: Oregano_69 Start: 43358, Stop: 43855, Start Num: 7

Candidate Starts for Oregano_69:

(1, 43154), (4, 43172), (5, 43196), (Start: 7 @43358 has 9 MA's), (8, 43385), (9, 43388), (10, 43397), (11, 43457), (12, 43478), (13, 43580), (21, 43733),

Gene: PhorbesPhlower_65 Start: 38455, Stop: 38940, Start Num: 6

Candidate Starts for PhorbesPhlower_65:

(2, 38278), (Start: 6 @38455 has 7 MA's), (9, 38488), (12, 38581), (14, 38698), (15, 38725), (17, 38776), (18, 38785), (21, 38833),

Gene: Samman98_70 Start: 43906, Stop: 44394, Start Num: 7

Candidate Starts for Samman98_70:

(1, 43702), (4, 43720), (5, 43744), (Start: 7 @43906 has 9 MA's), (8, 43933), (9, 43936), (10, 43945), (11, 44005), (12, 44026), (13, 44128), (21, 44281), (23, 44386),

Gene: Thimann_70 Start: 44163, Stop: 44660, Start Num: 7

Candidate Starts for Thimann_70:

(4, 43977), (5, 44001), (Start: 7 @44163 has 9 MA's), (8, 44190), (9, 44193), (10, 44202), (11, 44262), (12, 44283), (13, 44385), (18, 44490),

Gene: Tuti_69 Start: 44342, Stop: 44830, Start Num: 7

Candidate Starts for Tuti_69:

(4, 44156), (5, 44180), (Start: 7 @44342 has 9 MA's), (8, 44369), (9, 44372), (10, 44381), (11, 44441), (12, 44462), (13, 44564), (21, 44717), (23, 44822),

Gene: Yeezy_74 Start: 46717, Stop: 47211, Start Num: 6

Candidate Starts for Yeezy_74:

(3, 46531), (5, 46561), (Start: 6 @46717 has 7 MA's), (9, 46750), (12, 46843), (15, 46987), (17, 47038), (18, 47047),