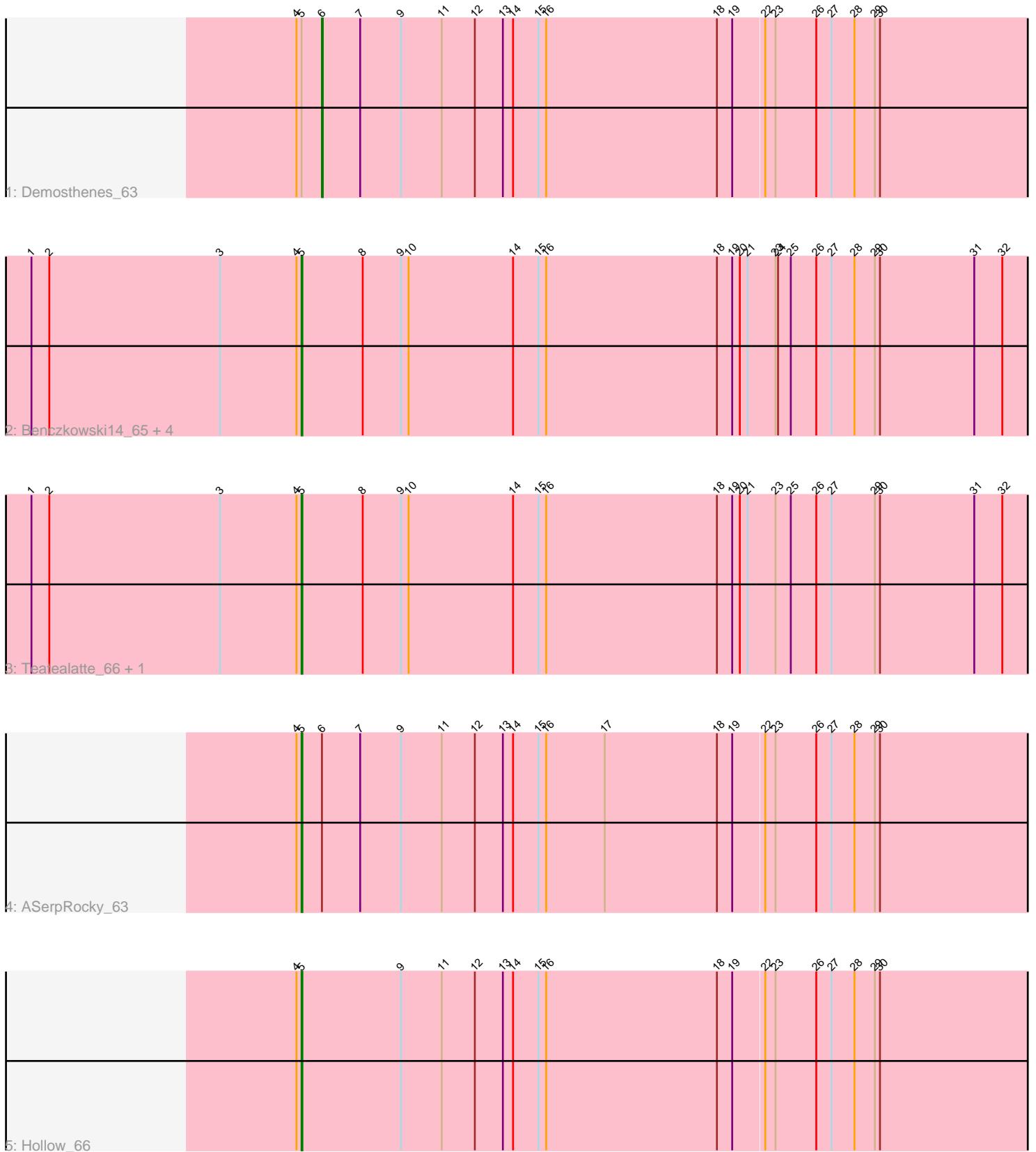


# Pham 6042



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 6042 Report

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

Pham number 6042 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Demosthenes\_63
- Track 2 : Benczkowski14\_65, Kvothe\_64, Katyusha\_65, Niagara\_65, Teech\_64
- Track 3 : Teatealatte\_66, Tredge\_65
- Track 4 : ASerpRocky\_63
- Track 5 : Hollow\_66

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

The start number called the most often in the published annotations is 5, it was called in 8 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASerpRocky\_63, Benczkowski14\_65, Hollow\_66, Katyusha\_65, Kvothe\_64, Niagara\_65, Teatealatte\_66, Teech\_64, Tredge\_65,

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

- Demosthenes\_63,

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

- 

### **Summary by start number:**

Start 5:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 8 of 9
- Called 90.0% of time when present
- Phage (with cluster) where this start called: ASerpRocky\_63 (CS4), Benczkowski14\_65 (CS4), Hollow\_66 (CS4), Katyusha\_65 (CS4), Kvothe\_64 (CS4), Niagara\_65 (CS4), Teatealatte\_66 (CS4), Teech\_64 (CS4), Tredge\_65 (CS4),

Start 6:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9

- Called 50.0% of time when present
- Phage (with cluster) where this start called: Demosthenes\_63 (CS4),

### **Summary by clusters:**

There is one cluster represented in this pham: CS4

Info for manual annotations of cluster CS4:

- Start number 5 was manually annotated 8 times for cluster CS4.
- Start number 6 was manually annotated 1 time for cluster CS4.

### **Gene Information:**

Gene: ASerpRocky\_63 Start: 57565, Stop: 56678, Start Num: 5

Candidate Starts for ASerpRocky\_63:

(4, 57571), (Start: 5 @57565 has 8 MA's), (Start: 6 @57541 has 1 MA's), (7, 57496), (9, 57448), (11, 57400), (12, 57361), (13, 57328), (14, 57316), (15, 57286), (16, 57277), (17, 57208), (18, 57076), (19, 57058), (22, 57022), (23, 57010), (26, 56962), (27, 56944), (28, 56917), (29, 56893), (30, 56887),

Gene: Benczkowski14\_65 Start: 58090, Stop: 57200, Start Num: 5

Candidate Starts for Benczkowski14\_65:

(1, 58408), (2, 58387), (3, 58186), (4, 58096), (Start: 5 @58090 has 8 MA's), (8, 58018), (9, 57973), (10, 57964), (14, 57841), (15, 57811), (16, 57802), (18, 57601), (19, 57583), (20, 57574), (21, 57565), (23, 57532), (24, 57529), (25, 57514), (26, 57484), (27, 57466), (28, 57439), (29, 57415), (30, 57409), (31, 57298), (32, 57265),

Gene: Demosthenes\_63 Start: 57517, Stop: 56654, Start Num: 6

Candidate Starts for Demosthenes\_63:

(4, 57547), (Start: 5 @57541 has 8 MA's), (Start: 6 @57517 has 1 MA's), (7, 57472), (9, 57424), (11, 57376), (12, 57337), (13, 57304), (14, 57292), (15, 57262), (16, 57253), (18, 57052), (19, 57034), (22, 56998), (23, 56986), (26, 56938), (27, 56920), (28, 56893), (29, 56869), (30, 56863),

Gene: Hollow\_66 Start: 58270, Stop: 57383, Start Num: 5

Candidate Starts for Hollow\_66:

(4, 58276), (Start: 5 @58270 has 8 MA's), (9, 58153), (11, 58105), (12, 58066), (13, 58033), (14, 58021), (15, 57991), (16, 57982), (18, 57781), (19, 57763), (22, 57727), (23, 57715), (26, 57667), (27, 57649), (28, 57622), (29, 57598), (30, 57592),

Gene: Katyusha\_65 Start: 58090, Stop: 57200, Start Num: 5

Candidate Starts for Katyusha\_65:

(1, 58408), (2, 58387), (3, 58186), (4, 58096), (Start: 5 @58090 has 8 MA's), (8, 58018), (9, 57973), (10, 57964), (14, 57841), (15, 57811), (16, 57802), (18, 57601), (19, 57583), (20, 57574), (21, 57565), (23, 57532), (24, 57529), (25, 57514), (26, 57484), (27, 57466), (28, 57439), (29, 57415), (30, 57409), (31, 57298), (32, 57265),

Gene: Kvothe\_64 Start: 57992, Stop: 57102, Start Num: 5

Candidate Starts for Kvothe\_64:

(1, 58310), (2, 58289), (3, 58088), (4, 57998), (Start: 5 @57992 has 8 MA's), (8, 57920), (9, 57875), (10, 57866), (14, 57743), (15, 57713), (16, 57704), (18, 57503), (19, 57485), (20, 57476), (21, 57467), (23, 57434), (24, 57431), (25, 57416), (26, 57386), (27, 57368), (28, 57341), (29, 57317), (30, 57311), (31, 57200), (32, 57167),

Gene: Niagara\_65 Start: 58083, Stop: 57193, Start Num: 5

Candidate Starts for Niagara\_65:

(1, 58401), (2, 58380), (3, 58179), (4, 58089), (Start: 5 @58083 has 8 MA's), (8, 58011), (9, 57966),  
(10, 57957), (14, 57834), (15, 57804), (16, 57795), (18, 57594), (19, 57576), (20, 57567), (21, 57558),  
(23, 57525), (24, 57522), (25, 57507), (26, 57477), (27, 57459), (28, 57432), (29, 57408), (30, 57402),  
(31, 57291), (32, 57258),

Gene: Teatealatte\_66 Start: 57980, Stop: 57090, Start Num: 5

Candidate Starts for Teatealatte\_66:

(1, 58298), (2, 58277), (3, 58076), (4, 57986), (Start: 5 @57980 has 8 MA's), (8, 57908), (9, 57863),  
(10, 57854), (14, 57731), (15, 57701), (16, 57692), (18, 57491), (19, 57473), (20, 57464), (21, 57455),  
(23, 57422), (25, 57404), (26, 57374), (27, 57356), (29, 57305), (30, 57299), (31, 57188), (32, 57155),

Gene: Teech\_64 Start: 57796, Stop: 56906, Start Num: 5

Candidate Starts for Teech\_64:

(1, 58114), (2, 58093), (3, 57892), (4, 57802), (Start: 5 @57796 has 8 MA's), (8, 57724), (9, 57679),  
(10, 57670), (14, 57547), (15, 57517), (16, 57508), (18, 57307), (19, 57289), (20, 57280), (21, 57271),  
(23, 57238), (24, 57235), (25, 57220), (26, 57190), (27, 57172), (28, 57145), (29, 57121), (30, 57115),  
(31, 57004), (32, 56971),

Gene: Tredge\_65 Start: 57980, Stop: 57090, Start Num: 5

Candidate Starts for Tredge\_65:

(1, 58298), (2, 58277), (3, 58076), (4, 57986), (Start: 5 @57980 has 8 MA's), (8, 57908), (9, 57863),  
(10, 57854), (14, 57731), (15, 57701), (16, 57692), (18, 57491), (19, 57473), (20, 57464), (21, 57455),  
(23, 57422), (25, 57404), (26, 57374), (27, 57356), (29, 57305), (30, 57299), (31, 57188), (32, 57155),