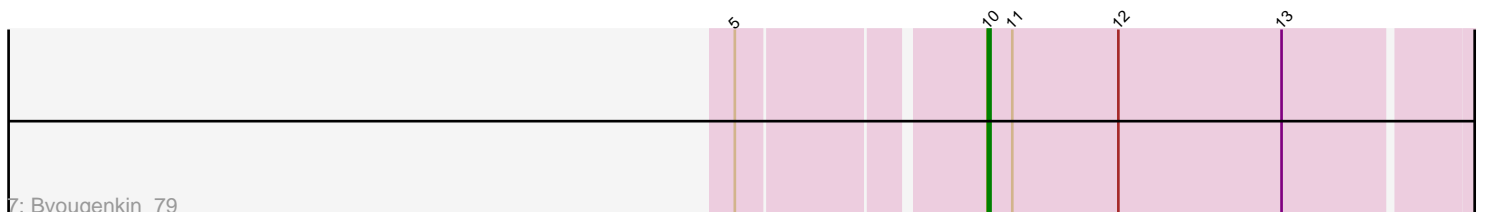
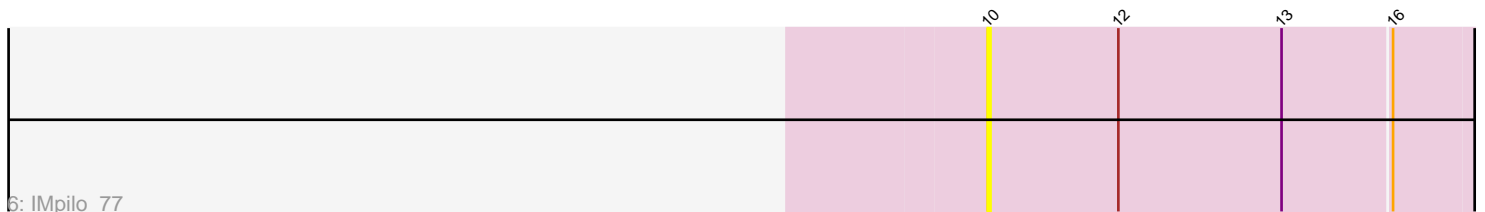
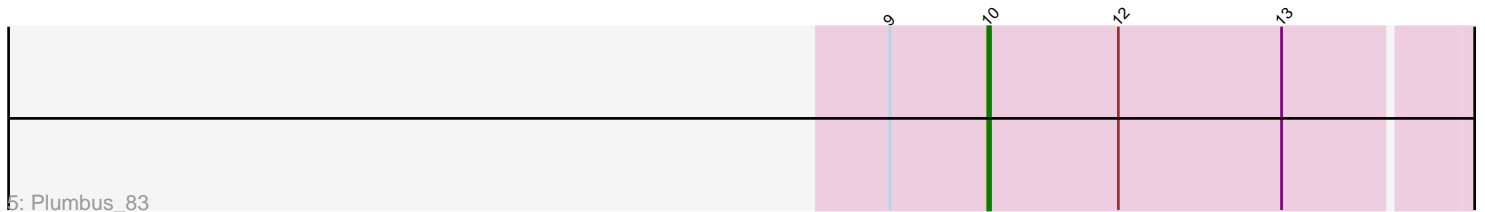
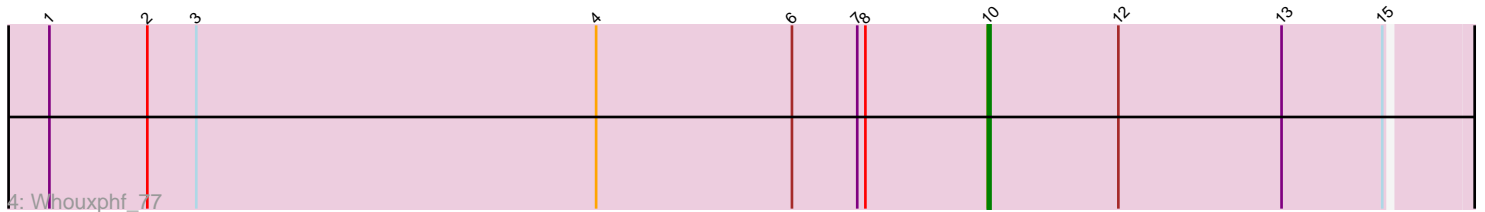
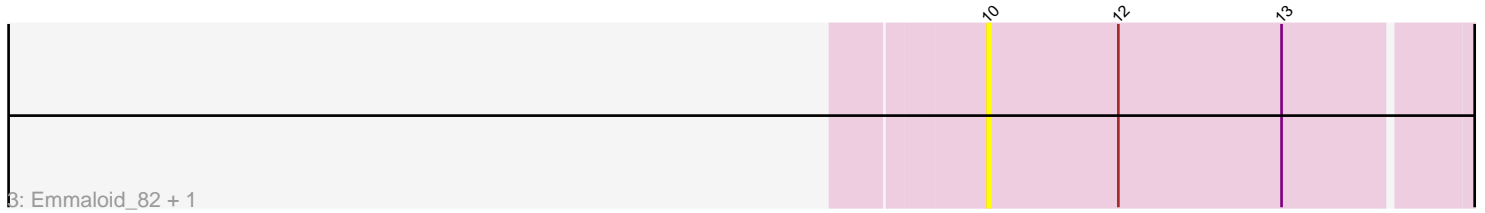
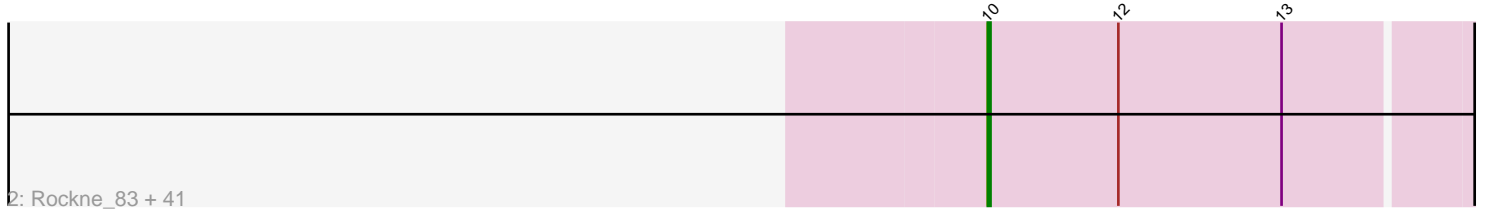
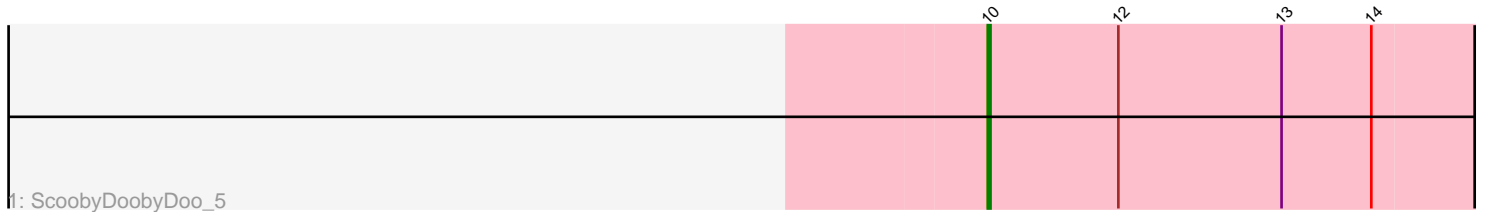


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 216256 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216256 has 49 members, 6 are drafts.

Phages represented in each track:

- Track 1 : ScoobyDoobyDoo\_5
- Track 2 : Rockne\_83, Eradicator\_73, James\_83, Seagreen\_81, DirtMcgirt\_81, Violac\_87, Rita\_89, DRBy19\_86, PhesterPhotato\_86, Boomer\_86, Pippy\_77, Burwell21\_77, Harley\_81, SassyB\_74, Leozinho\_80, Llij\_78, Mandlovu\_77, Phatniss\_79, UncleRicky\_81, Clifton\_75, Ardmore\_68, Gandalph\_80, Hlubikazi\_77, Lorde\_82, PMC\_79, Strokeseat\_77, Phalconet\_79, Drago\_79, Blexus\_77, Philus\_85, OlympiaSaint\_82, Jarcob\_82, DoRead\_85, Flathead\_82, Phanphagia\_81, LilMoolah\_83, Nivrat\_81, Enby\_83, Tweety\_83, PopTart\_74, Eish\_85, Mova\_81
- Track 3 : Emmaloid\_82, Slim\_82
- Track 4 : Whouxphf\_77
- Track 5 : Plumbus\_83
- Track 6 : IMpilo\_77
- Track 7 : Byougenkin\_79

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

The start number called the most often in the published annotations is 10, it was called in 43 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ardmore\_68, Blexus\_77, Boomer\_86, Burwell21\_77, Byougenkin\_79, Clifton\_75, DRBy19\_86, DirtMcgirt\_81, DoRead\_85, Drago\_79, Eish\_85, Emmaloid\_82, Enby\_83, Eradicator\_73, Flathead\_82, Gandalph\_80, Harley\_81, Hlubikazi\_77, IMpilo\_77, James\_83, Jarcob\_82, Leozinho\_80, LilMoolah\_83, Llij\_78, Lorde\_82, Mandlovu\_77, Mova\_81, Nivrat\_81, OlympiaSaint\_82, PMC\_79, Phalconet\_79, Phanphagia\_81, Phatniss\_79, PhesterPhotato\_86, Philus\_85, Pippy\_77, Plumbus\_83, PopTart\_74, Rita\_89, Rockne\_83, SassyB\_74, ScoobyDoobyDoo\_5, Seagreen\_81, Slim\_82, Strokeseat\_77, Tweety\_83, UncleRicky\_81, Violac\_87, Whouxphf\_77,

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

- 

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

•

### Summary by start number:

Start 10:

- Found in 49 of 49 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 43 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ardmore\_68 (F1), Blexus\_77 (F1), Boomer\_86 (F1), Burwell21\_77 (F1), Byougenkin\_79 (F1), Clifton\_75 (F1), DRBy19\_86 (F1), DirtMcgirt\_81 (F1), DoRead\_85 (F1), Drago\_79 (F1), Eish\_85 (F1), Emmaloid\_82 (F1), Enby\_83 (F1), Eradicator\_73 (F1), Flathead\_82 (F1), Gandolph\_80 (F1), Harley\_81 (F1), Hlubikazi\_77 (F1), IMpilo\_77 (F1), James\_83 (F1), Jarcob\_82 (F1), Leozinho\_80 (F1), LilMoolah\_83 (F1), Llij\_78 (F1), Lorde\_82 (F1), Mandlovu\_77 (F1), Mova\_81 (F1), Nivrat\_81 (F1), OlympiaSaint\_82 (F1), PMC\_79 (F1), Phalconet\_79 (F1), Phanphagia\_81 (F1), Phatniss\_79 (F1), PhesterPhotato\_86 (F1), Philus\_85 (F1), Pippy\_77 (F1), Plumbus\_83 (F1), PopTart\_74 (F1), Rita\_89 (F1), Rockne\_83 (F1), SassyB\_74 (F1), ScoobyDoobyDoo\_5 (C2), Seagreen\_81 (F1), Slim\_82 (F1), Strokeseat\_77 (F1), Tweety\_83 (F1), UncleRicky\_81 (F1), Violac\_87 (F1), Whouxphf\_77 (F1),

### Summary by clusters:

There are 2 clusters represented in this pham: F1, C2,

Info for manual annotations of cluster C2:

- Start number 10 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster F1:

- Start number 10 was manually annotated 42 times for cluster F1.

### Gene Information:

Gene: Ardmore\_68 Start: 43961, Stop: 44149, Start Num: 10

Candidate Starts for Ardmore\_68:

(Start: 10 @43961 has 43 MA's), (12, 44009), (13, 44069),

Gene: Blexus\_77 Start: 49140, Stop: 49328, Start Num: 10

Candidate Starts for Blexus\_77:

(Start: 10 @49140 has 43 MA's), (12, 49188), (13, 49248),

Gene: Boomer\_86 Start: 49955, Stop: 50143, Start Num: 10

Candidate Starts for Boomer\_86:

(Start: 10 @49955 has 43 MA's), (12, 50003), (13, 50063),

Gene: Burwell21\_77 Start: 48863, Stop: 49051, Start Num: 10

Candidate Starts for Burwell21\_77:

(Start: 10 @48863 has 43 MA's), (12, 48911), (13, 48971),

Gene: Byougenkin\_79 Start: 46564, Stop: 46752, Start Num: 10

Candidate Starts for Byougenkin\_79:

(5, 46480), (Start: 10 @46564 has 43 MA's), (11, 46573), (12, 46612), (13, 46672),

Gene: Clifton\_75 Start: 47679, Stop: 47867, Start Num: 10

Candidate Starts for Clifton\_75:

(Start: 10 @47679 has 43 MA's), (12, 47727), (13, 47787),

Gene: DRBy19\_86 Start: 51408, Stop: 51596, Start Num: 10

Candidate Starts for DRBy19\_86:

(Start: 10 @51408 has 43 MA's), (12, 51456), (13, 51516),

Gene: DirtMcgirt\_81 Start: 46565, Stop: 46753, Start Num: 10

Candidate Starts for DirtMcgirt\_81:

(Start: 10 @46565 has 43 MA's), (12, 46613), (13, 46673),

Gene: DoRead\_85 Start: 47223, Stop: 47411, Start Num: 10

Candidate Starts for DoRead\_85:

(Start: 10 @47223 has 43 MA's), (12, 47271), (13, 47331),

Gene: Drago\_79 Start: 46568, Stop: 46756, Start Num: 10

Candidate Starts for Drago\_79:

(Start: 10 @46568 has 43 MA's), (12, 46616), (13, 46676),

Gene: Eish\_85 Start: 50271, Stop: 50459, Start Num: 10

Candidate Starts for Eish\_85:

(Start: 10 @50271 has 43 MA's), (12, 50319), (13, 50379),

Gene: Emmaloid\_82 Start: 48897, Stop: 49085, Start Num: 10

Candidate Starts for Emmaloid\_82:

(Start: 10 @48897 has 43 MA's), (12, 48945), (13, 49005),

Gene: Enby\_83 Start: 46844, Stop: 47032, Start Num: 10

Candidate Starts for Enby\_83:

(Start: 10 @46844 has 43 MA's), (12, 46892), (13, 46952),

Gene: Eradicator\_73 Start: 47167, Stop: 47355, Start Num: 10

Candidate Starts for Eradicator\_73:

(Start: 10 @47167 has 43 MA's), (12, 47215), (13, 47275),

Gene: Flathead\_82 Start: 49017, Stop: 49205, Start Num: 10

Candidate Starts for Flathead\_82:

(Start: 10 @49017 has 43 MA's), (12, 49065), (13, 49125),

Gene: Gandalph\_80 Start: 46288, Stop: 46476, Start Num: 10

Candidate Starts for Gandalph\_80:

(Start: 10 @46288 has 43 MA's), (12, 46336), (13, 46396),

Gene: Harley\_81 Start: 48617, Stop: 48805, Start Num: 10

Candidate Starts for Harley\_81:

(Start: 10 @48617 has 43 MA's), (12, 48665), (13, 48725),

Gene: Hlubikazi\_77 Start: 46504, Stop: 46716, Start Num: 10

Candidate Starts for Hlubikazi\_77:

(Start: 10 @46504 has 43 MA's), (12, 46552), (13, 46612),

Gene: IMpilo\_77 Start: 46915, Stop: 47121, Start Num: 10  
Candidate Starts for IMpilo\_77:  
(Start: 10 @46915 has 43 MA's), (12, 46963), (13, 47023), (16, 47062),

Gene: James\_83 Start: 50743, Stop: 50931, Start Num: 10  
Candidate Starts for James\_83:  
(Start: 10 @50743 has 43 MA's), (12, 50791), (13, 50851),

Gene: Jarcob\_82 Start: 50340, Stop: 50528, Start Num: 10  
Candidate Starts for Jarcob\_82:  
(Start: 10 @50340 has 43 MA's), (12, 50388), (13, 50448),

Gene: Leozinho\_80 Start: 46774, Stop: 46962, Start Num: 10  
Candidate Starts for Leozinho\_80:  
(Start: 10 @46774 has 43 MA's), (12, 46822), (13, 46882),

Gene: LilMoolah\_83 Start: 49911, Stop: 50099, Start Num: 10  
Candidate Starts for LilMoolah\_83:  
(Start: 10 @49911 has 43 MA's), (12, 49959), (13, 50019),

Gene: Llij\_78 Start: 46722, Stop: 46910, Start Num: 10  
Candidate Starts for Llij\_78:  
(Start: 10 @46722 has 43 MA's), (12, 46770), (13, 46830),

Gene: Lorde\_82 Start: 46009, Stop: 46197, Start Num: 10  
Candidate Starts for Lorde\_82:  
(Start: 10 @46009 has 43 MA's), (12, 46057), (13, 46117),

Gene: Mandlovu\_77 Start: 46446, Stop: 46658, Start Num: 10  
Candidate Starts for Mandlovu\_77:  
(Start: 10 @46446 has 43 MA's), (12, 46494), (13, 46554),

Gene: Mova\_81 Start: 48129, Stop: 48317, Start Num: 10  
Candidate Starts for Mova\_81:  
(Start: 10 @48129 has 43 MA's), (12, 48177), (13, 48237),

Gene: Nivrat\_81 Start: 49784, Stop: 49972, Start Num: 10  
Candidate Starts for Nivrat\_81:  
(Start: 10 @49784 has 43 MA's), (12, 49832), (13, 49892),

Gene: OlympiaSaint\_82 Start: 49685, Stop: 49873, Start Num: 10  
Candidate Starts for OlympiaSaint\_82:  
(Start: 10 @49685 has 43 MA's), (12, 49733), (13, 49793),

Gene: PMC\_79 Start: 48179, Stop: 48367, Start Num: 10  
Candidate Starts for PMC\_79:  
(Start: 10 @48179 has 43 MA's), (12, 48227), (13, 48287),

Gene: Phalconet\_79 Start: 48308, Stop: 48496, Start Num: 10  
Candidate Starts for Phalconet\_79:  
(Start: 10 @48308 has 43 MA's), (12, 48356), (13, 48416),

Gene: Phanphagia\_81 Start: 49682, Stop: 49870, Start Num: 10  
Candidate Starts for Phanphagia\_81:  
(Start: 10 @49682 has 43 MA's), (12, 49730), (13, 49790),

Gene: Phatniss\_79 Start: 47817, Stop: 48005, Start Num: 10  
Candidate Starts for Phatniss\_79:  
(Start: 10 @47817 has 43 MA's), (12, 47865), (13, 47925),

Gene: PhesterPhotato\_86 Start: 49476, Stop: 49664, Start Num: 10  
Candidate Starts for PhesterPhotato\_86:  
(Start: 10 @49476 has 43 MA's), (12, 49524), (13, 49584),

Gene: Philus\_85 Start: 51384, Stop: 51572, Start Num: 10  
Candidate Starts for Philus\_85:  
(Start: 10 @51384 has 43 MA's), (12, 51432), (13, 51492),

Gene: Pippy\_77 Start: 47880, Stop: 48068, Start Num: 10  
Candidate Starts for Pippy\_77:  
(Start: 10 @47880 has 43 MA's), (12, 47928), (13, 47988),

Gene: Plumbus\_83 Start: 46700, Stop: 46888, Start Num: 10  
Candidate Starts for Plumbus\_83:  
(9, 46664), (Start: 10 @46700 has 43 MA's), (12, 46748), (13, 46808),

Gene: PopTart\_74 Start: 46371, Stop: 46559, Start Num: 10  
Candidate Starts for PopTart\_74:  
(Start: 10 @46371 has 43 MA's), (12, 46419), (13, 46479),

Gene: Rita\_89 Start: 52033, Stop: 52221, Start Num: 10  
Candidate Starts for Rita\_89:  
(Start: 10 @52033 has 43 MA's), (12, 52081), (13, 52141),

Gene: Rockne\_83 Start: 48191, Stop: 48379, Start Num: 10  
Candidate Starts for Rockne\_83:  
(Start: 10 @48191 has 43 MA's), (12, 48239), (13, 48299),

Gene: SassyB\_74 Start: 46371, Stop: 46559, Start Num: 10  
Candidate Starts for SassyB\_74:  
(Start: 10 @46371 has 43 MA's), (12, 46419), (13, 46479),

Gene: ScoobyDoobyDoo\_5 Start: 1403, Stop: 1597, Start Num: 10  
Candidate Starts for ScoobyDoobyDoo\_5:  
(Start: 10 @1403 has 43 MA's), (12, 1451), (13, 1511), (14, 1544),

Gene: Seagreen\_81 Start: 49474, Stop: 49662, Start Num: 10  
Candidate Starts for Seagreen\_81:  
(Start: 10 @49474 has 43 MA's), (12, 49522), (13, 49582),

Gene: Slim\_82 Start: 48888, Stop: 49076, Start Num: 10  
Candidate Starts for Slim\_82:  
(Start: 10 @48888 has 43 MA's), (12, 48936), (13, 48996),

Gene: Strokeseat\_77 Start: 46503, Stop: 46715, Start Num: 10

Candidate Starts for Strokeseat\_77:

(Start: 10 @46503 has 43 MA's), (12, 46551), (13, 46611),

Gene: Tweety\_83 Start: 50302, Stop: 50490, Start Num: 10

Candidate Starts for Tweety\_83:

(Start: 10 @50302 has 43 MA's), (12, 50350), (13, 50410),

Gene: UncleRicky\_81 Start: 48065, Stop: 48253, Start Num: 10

Candidate Starts for UncleRicky\_81:

(Start: 10 @48065 has 43 MA's), (12, 48113), (13, 48173),

Gene: Violac\_87 Start: 50781, Stop: 50969, Start Num: 10

Candidate Starts for Violac\_87:

(Start: 10 @50781 has 43 MA's), (12, 50829), (13, 50889),

Gene: Whouxphf\_77 Start: 48494, Stop: 48697, Start Num: 10

Candidate Starts for Whouxphf\_77:

(1, 48149), (2, 48185), (3, 48203), (4, 48350), (6, 48422), (7, 48446), (8, 48449), (Start: 10 @48494 has 43 MA's), (12, 48542), (13, 48602), (15, 48638),