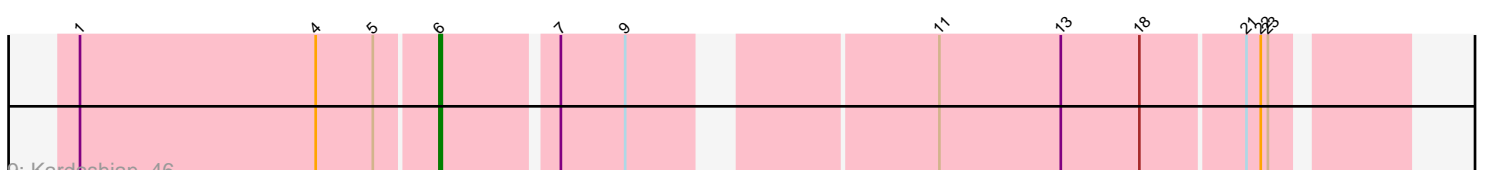
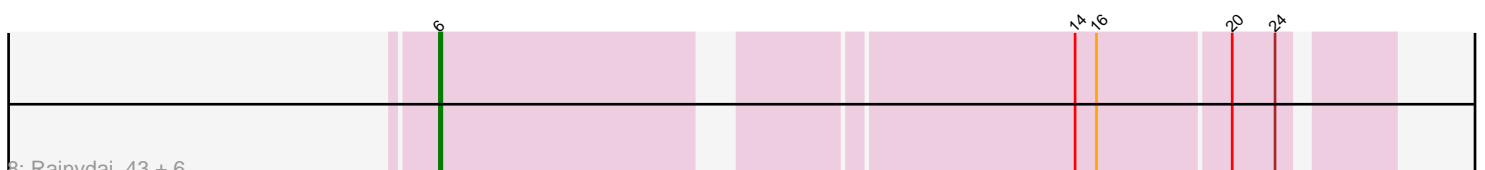
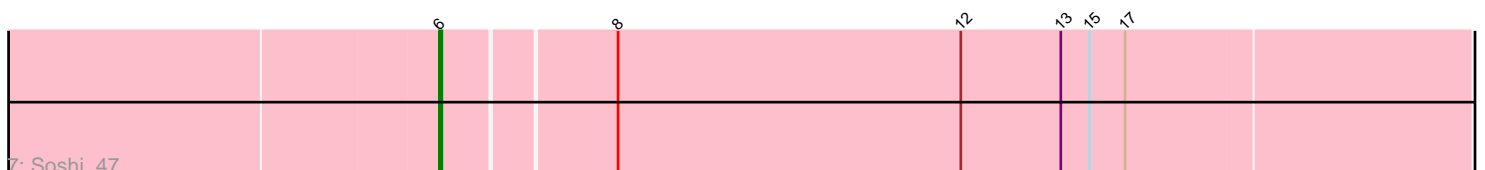
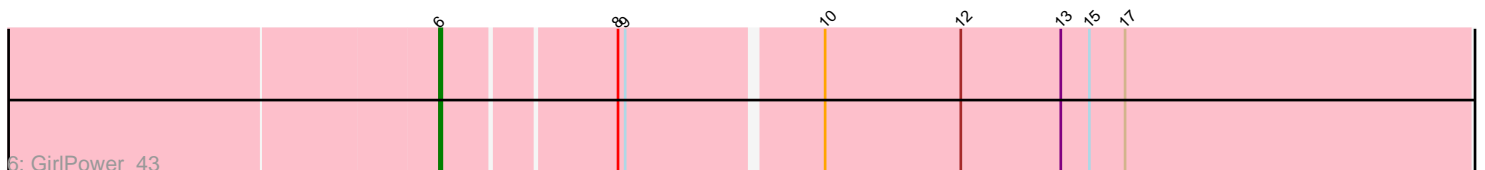
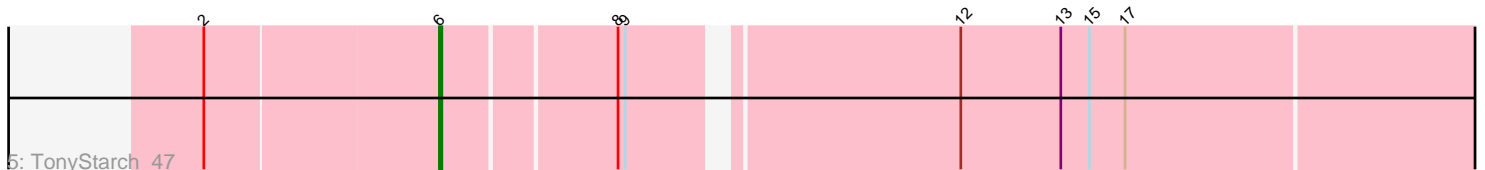
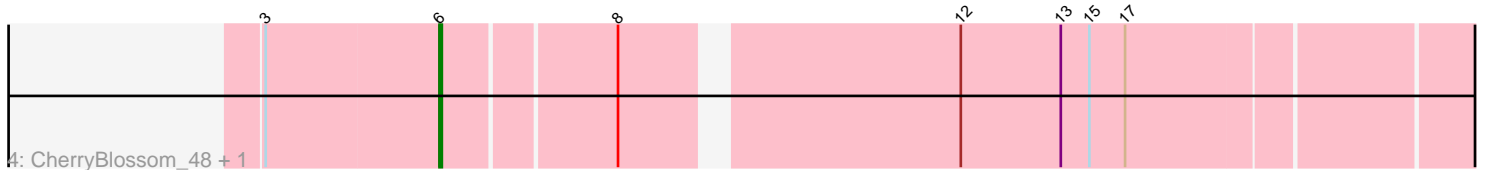
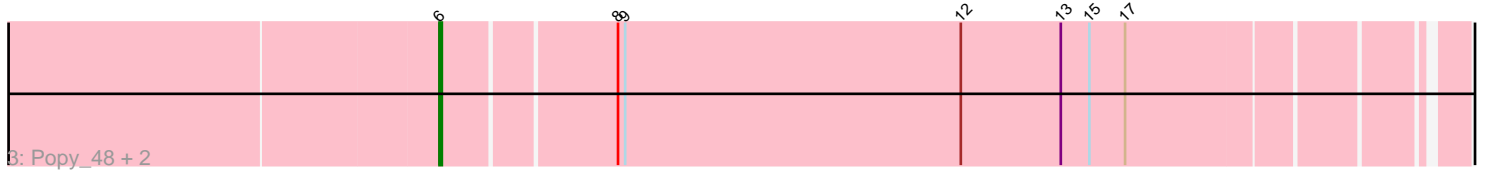
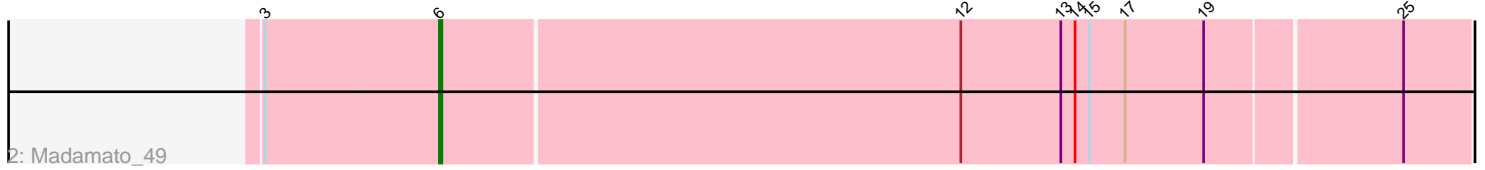
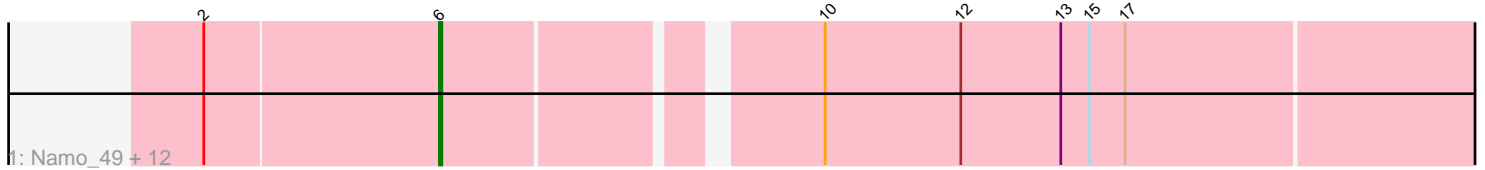


Pham 163828



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 163828 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163828 has 30 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Namu\_49, Hoshi\_47, FidgetOrca\_48, OlympicHelado\_48, TieDye\_47, Spectropatronm\_48, Indigenous\_48, IceWarrior\_47, Rima\_49, Meibysrarus\_46, Esketit\_48, Jaylociraptor\_48, Maya\_48
- Track 2 : Madamoto\_49
- Track 3 : Popy\_48, FrodoSwaggins\_48, DrGrey\_47
- Track 4 : CherryBlossom\_48, TaidaOne\_48
- Track 5 : TonyStarch\_47
- Track 6 : GirlPower\_43
- Track 7 : Soshi\_47
- Track 8 : Rainydai\_43, Regigigas\_45, Miek\_43, CricKo\_44, Thiqqums\_44, FromIndy\_44, SendItCS\_42
- Track 9 : Kardashian\_46

### ***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 28 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CherryBlossom\_48, CricKo\_44, DrGrey\_47, Esketit\_48, FidgetOrca\_48, FrodoSwaggins\_48, FromIndy\_44, GirlPower\_43, Hoshi\_47, IceWarrior\_47, Indigenous\_48, Jaylociraptor\_48, Kardashian\_46, Madamoto\_49, Maya\_48, Meibysrarus\_46, Miek\_43, Namu\_49, OlympicHelado\_48, Popy\_48, Rainydai\_43, Regigigas\_45, Rima\_49, SendItCS\_42, Soshi\_47, Spectropatronm\_48, TaidaOne\_48, Thiqqums\_44, TieDye\_47, TonyStarch\_47,

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 6:

- Found in 30 of 30 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 28 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryBlossom\_48 (BI1), CricKo\_44 (BI4), DrGrey\_47 (BI1), Esketit\_48 (BI1), FidgetOrca\_48 (BI1), FrodoSwaggins\_48 (BI1), FromIndy\_44 (BI4), GirlPower\_43 (BI1), Hoshi\_47 (BI1), IceWarrior\_47 (BI1), Indigenous\_48 (BI1), Jaylociraptor\_48 (BI1), Kardashian\_46 (BI6), Madamoto\_49 (BI1), Maya\_48 (BI1), Meibysrarus\_46 (BI1), Miek\_43 (BI4), Namu\_49 (BI1), OlympicHelado\_48 (BI1), Popy\_48 (BI1), Rainydai\_43 (BI4), Regigigas\_45 (BI4), Rima\_49 (BI1), SendItCS\_42 (BI4), Soshi\_47 (BI1), SpectroPatronm\_48 (BI1), TaidaOne\_48 (BI1), Thiqqums\_44 (BI4), TieDye\_47 (BI1), TonyStarch\_47 (BI1),

### Summary by clusters:

There are 3 clusters represented in this pham: BI6, BI4, BI1,

Info for manual annotations of cluster BI1:

- Start number 6 was manually annotated 22 times for cluster BI1.

Info for manual annotations of cluster BI4:

- Start number 6 was manually annotated 5 times for cluster BI4.

Info for manual annotations of cluster BI6:

- Start number 6 was manually annotated 1 time for cluster BI6.

### Gene Information:

Gene: CherryBlossom\_48 Start: 32222, Stop: 32635, Start Num: 6

Candidate Starts for CherryBlossom\_48:

(3, 32150), (Start: 6 @32222 has 28 MA's), (8, 32291), (12, 32420), (13, 32462), (15, 32474), (17, 32489),

Gene: CricKo\_44 Start: 30360, Stop: 30725, Start Num: 6

Candidate Starts for CricKo\_44:

(Start: 6 @30360 has 28 MA's), (14, 30603), (16, 30612), (20, 30666), (24, 30684),

Gene: DrGrey\_47 Start: 32588, Stop: 33001, Start Num: 6

Candidate Starts for DrGrey\_47:

(Start: 6 @32588 has 28 MA's), (8, 32657), (9, 32660), (12, 32801), (13, 32843), (15, 32855), (17, 32870),

Gene: Esketit\_48 Start: 32324, Stop: 32746, Start Num: 6

Candidate Starts for Esketit\_48:

(2, 32228), (Start: 6 @32324 has 28 MA's), (10, 32465), (12, 32522), (13, 32564), (15, 32576), (17, 32591),

Gene: FidgetOrca\_48 Start: 32317, Stop: 32739, Start Num: 6

Candidate Starts for FidgetOrca\_48:

(2, 32221), (Start: 6 @32317 has 28 MA's), (10, 32458), (12, 32515), (13, 32557), (15, 32569), (17, 32584),

Gene: FrodoSwaggins\_48 Start: 32982, Stop: 33395, Start Num: 6

Candidate Starts for FrodoSwaggins\_48:

(Start: 6 @32982 has 28 MA's), (8, 33051), (9, 33054), (12, 33195), (13, 33237), (15, 33249), (17, 33264),

Gene: FromIndy\_44 Start: 29964, Stop: 30329, Start Num: 6

Candidate Starts for FromIndy\_44:

(Start: 6 @29964 has 28 MA's), (14, 30207), (16, 30216), (20, 30270), (24, 30288),

Gene: GirlPower\_43 Start: 32770, Stop: 33195, Start Num: 6

Candidate Starts for GirlPower\_43:

(Start: 6 @32770 has 28 MA's), (8, 32839), (9, 32842), (10, 32920), (12, 32977), (13, 33019), (15, 33031), (17, 33046),

Gene: Hoshi\_47 Start: 31921, Stop: 32343, Start Num: 6

Candidate Starts for Hoshi\_47:

(2, 31825), (Start: 6 @31921 has 28 MA's), (10, 32062), (12, 32119), (13, 32161), (15, 32173), (17, 32188),

Gene: IceWarrior\_47 Start: 32012, Stop: 32425, Start Num: 6

Candidate Starts for IceWarrior\_47:

(2, 31916), (Start: 6 @32012 has 28 MA's), (10, 32153), (12, 32210), (13, 32252), (15, 32264), (17, 32279),

Gene: Indigenous\_48 Start: 32318, Stop: 32740, Start Num: 6

Candidate Starts for Indigenous\_48:

(2, 32222), (Start: 6 @32318 has 28 MA's), (10, 32459), (12, 32516), (13, 32558), (15, 32570), (17, 32585),

Gene: Jaylociraptor\_48 Start: 32317, Stop: 32739, Start Num: 6

Candidate Starts for Jaylociraptor\_48:

(2, 32221), (Start: 6 @32317 has 28 MA's), (10, 32458), (12, 32515), (13, 32557), (15, 32569), (17, 32584),

Gene: Kardashian\_46 Start: 32474, Stop: 32842, Start Num: 6

Candidate Starts for Kardashian\_46:

(1, 32327), (4, 32426), (5, 32450), (Start: 6 @32474 has 28 MA's), (7, 32519), (9, 32546), (11, 32657), (13, 32708), (18, 32741), (21, 32783), (22, 32789), (23, 32792),

Gene: Madamoto\_49 Start: 32375, Stop: 32803, Start Num: 6

Candidate Starts for Madamoto\_49:

(3, 32303), (Start: 6 @32375 has 28 MA's), (12, 32591), (13, 32633), (14, 32639), (15, 32645), (17, 32660), (19, 32693), (25, 32771),

Gene: Maya\_48 Start: 32331, Stop: 32753, Start Num: 6

Candidate Starts for Maya\_48:

(2, 32235), (Start: 6 @32331 has 28 MA's), (10, 32472), (12, 32529), (13, 32571), (15, 32583), (17, 32598),

Gene: Meibysrarus\_46 Start: 31694, Stop: 32116, Start Num: 6

Candidate Starts for Meibysrarus\_46:

(2, 31598), (Start: 6 @31694 has 28 MA's), (10, 31835), (12, 31892), (13, 31934), (15, 31946), (17, 31961),

Gene: Miek\_43 Start: 29976, Stop: 30341, Start Num: 6

Candidate Starts for Miek\_43:

(Start: 6 @29976 has 28 MA's), (14, 30219), (16, 30228), (20, 30282), (24, 30300),

Gene: Namo\_49 Start: 32662, Stop: 33084, Start Num: 6

Candidate Starts for Namo\_49:

(2, 32566), (Start: 6 @32662 has 28 MA's), (10, 32803), (12, 32860), (13, 32902), (15, 32914), (17, 32929),

Gene: OlympicHelado\_48 Start: 32345, Stop: 32767, Start Num: 6

Candidate Starts for OlympicHelado\_48:

(2, 32249), (Start: 6 @32345 has 28 MA's), (10, 32486), (12, 32543), (13, 32585), (15, 32597), (17, 32612),

Gene: Popy\_48 Start: 32982, Stop: 33395, Start Num: 6

Candidate Starts for Popy\_48:

(Start: 6 @32982 has 28 MA's), (8, 33051), (9, 33054), (12, 33195), (13, 33237), (15, 33249), (17, 33264),

Gene: Rainydai\_43 Start: 30360, Stop: 30725, Start Num: 6

Candidate Starts for Rainydai\_43:

(Start: 6 @30360 has 28 MA's), (14, 30603), (16, 30612), (20, 30666), (24, 30684),

Gene: Regigigas\_45 Start: 30361, Stop: 30726, Start Num: 6

Candidate Starts for Regigigas\_45:

(Start: 6 @30361 has 28 MA's), (14, 30604), (16, 30613), (20, 30667), (24, 30685),

Gene: Rima\_49 Start: 32662, Stop: 33084, Start Num: 6

Candidate Starts for Rima\_49:

(2, 32566), (Start: 6 @32662 has 28 MA's), (10, 32803), (12, 32860), (13, 32902), (15, 32914), (17, 32929),

Gene: SendItCS\_42 Start: 29964, Stop: 30329, Start Num: 6

Candidate Starts for SendItCS\_42:

(Start: 6 @29964 has 28 MA's), (14, 30207), (16, 30216), (20, 30270), (24, 30288),

Gene: Soshi\_47 Start: 32588, Stop: 33016, Start Num: 6

Candidate Starts for Soshi\_47:

(Start: 6 @32588 has 28 MA's), (8, 32657), (12, 32801), (13, 32843), (15, 32855), (17, 32870),

Gene: Spectropatronm\_48 Start: 32324, Stop: 32746, Start Num: 6

Candidate Starts for Spectropatronm\_48:

(2, 32228), (Start: 6 @32324 has 28 MA's), (10, 32465), (12, 32522), (13, 32564), (15, 32576), (17, 32591),

Gene: TaidaOne\_48 Start: 32838, Stop: 33251, Start Num: 6

Candidate Starts for TaidaOne\_48:

(3, 32766), (Start: 6 @32838 has 28 MA's), (8, 32907), (12, 33036), (13, 33078), (15, 33090), (17, 33105),

Gene: Thiqqums\_44 Start: 30360, Stop: 30725, Start Num: 6

Candidate Starts for Thiqqums\_44:

(Start: 6 @30360 has 28 MA's), (14, 30603), (16, 30612), (20, 30666), (24, 30684),

Gene: TieDye\_47 Start: 31917, Stop: 32339, Start Num: 6

Candidate Starts for TieDye\_47:

(2, 31821), (Start: 6 @31917 has 28 MA's), (10, 32058), (12, 32115), (13, 32157), (15, 32169), (17, 32184),

Gene: TonyStarch\_47 Start: 32038, Stop: 32460, Start Num: 6

Candidate Starts for TonyStarch\_47:

(2, 31942), (Start: 6 @32038 has 28 MA's), (8, 32107), (9, 32110), (12, 32236), (13, 32278), (15, 32290), (17, 32305),