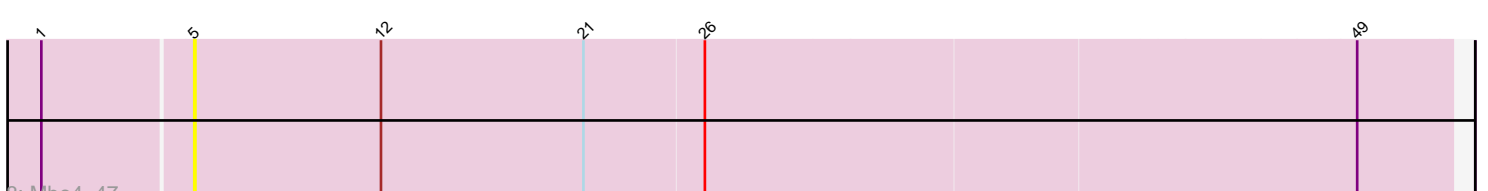
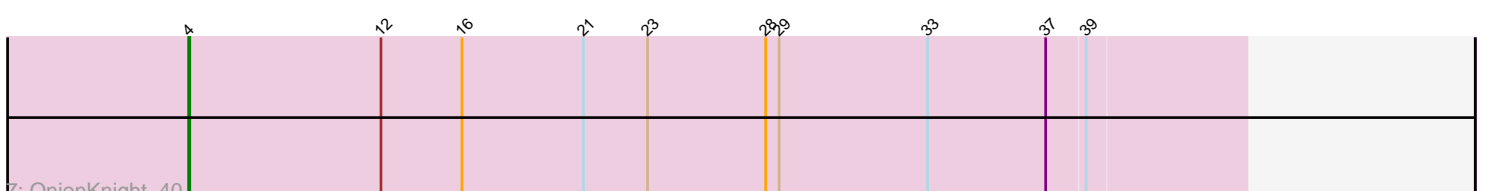
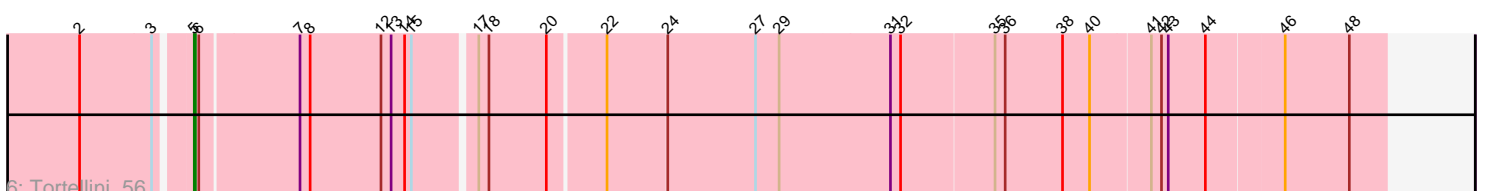
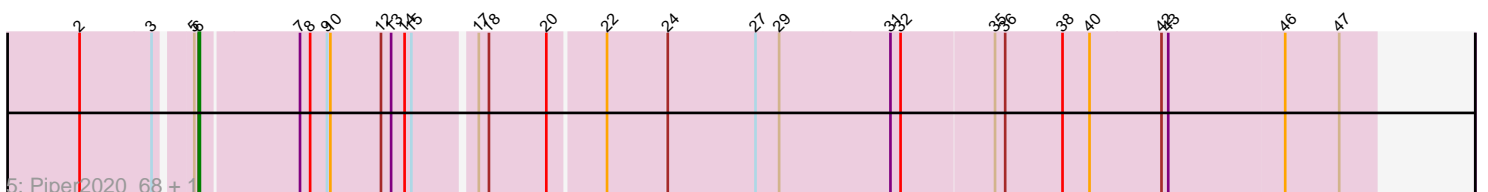
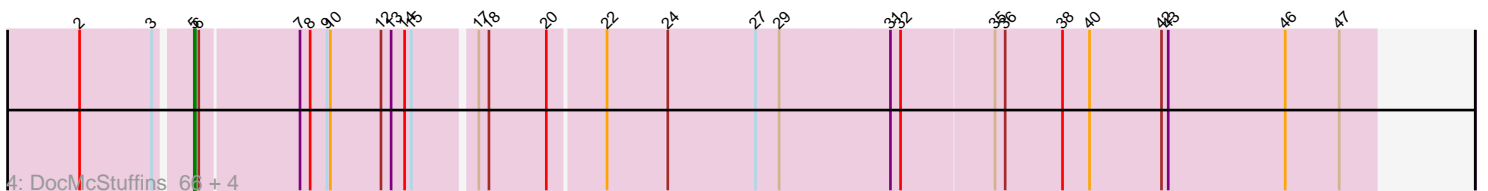
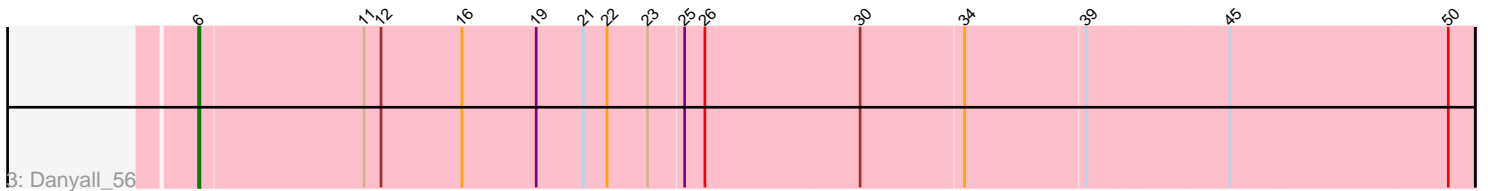
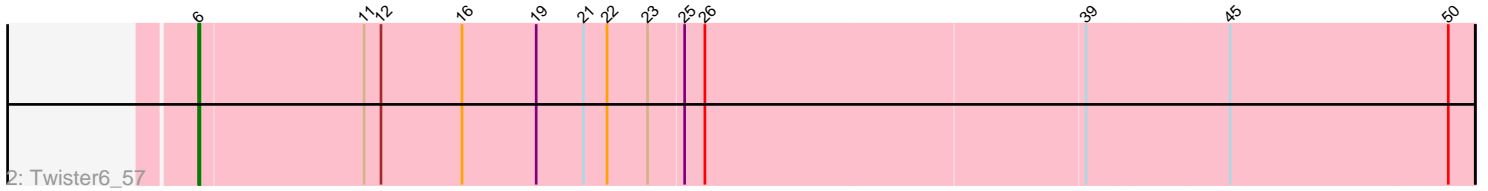
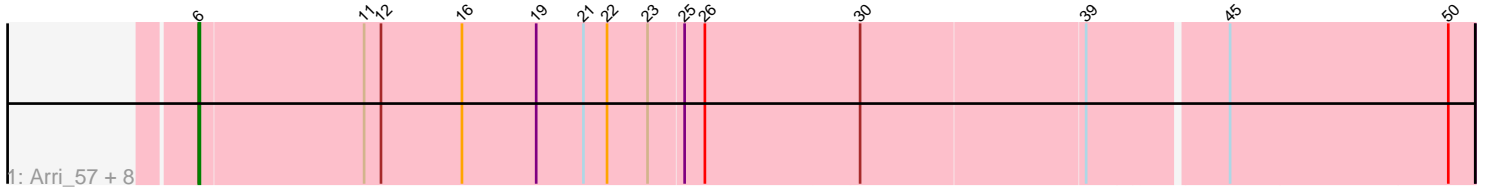


Pham 171771



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 171771 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171771 has 21 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Arri_57, Bakery_60, Shinji_54, Mutzi_54, Savbucketdawg_54, Jambalaya_54, Portcullis_56, Fireball_57, YungMoney_57
- Track 2 : Twister6_57
- Track 3 : Danyall_56
- Track 4 : DocMcStuffins_66, Misha28_65, ChickenDinner_69, Awesomesauce_67, TootsiePop_65
- Track 5 : Piper2020_68, LilSpotty_64
- Track 6 : Tortellini_56
- Track 7 : OnionKnight_40
- Track 8 : Mbo4_47

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 12 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arri_57, Bakery_60, Danyall_56, Fireball_57, Jambalaya_54, LilSpotty_64, Mutzi_54, Piper2020_68, Portcullis_56, Savbucketdawg_54, Shinji_54, Twister6_57, YungMoney_57,

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

- Awesomesauce_67, ChickenDinner_69, DocMcStuffins_66, Misha28_65, TootsiePop_65, Tortellini_56,

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

- Mbo4_47, OnionKnight_40,

Summary by start number:

Start 4:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present

- Phage (with cluster) where this start called: OnionKnight_40 (singleton),

Start 5:

- Found in 9 of 21 (42.9%) of genes in pham
- Manual Annotations of this start: 4 of 17
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Awesomesauce_67 (F1), ChickenDinner_69 (F1), DocMcStuffins_66 (F1), Mbo4_47 (singleton), Misha28_65 (F1), TootsiePop_65 (F1), Tortellini_56 (P2),

Start 6:

- Found in 19 of 21 (90.5%) of genes in pham
- Manual Annotations of this start: 12 of 17
- Called 68.4% of time when present
- Phage (with cluster) where this start called: Arri_57 (DC1), Bakery_60 (DC1), Danyall_56 (DC1), Fireball_57 (DC1), Jambalaya_54 (DC1), LilSpotty_64 (singleton), Mutzi_54 (DC1), Piper2020_68 (F1), Portcullis_56 (DC1), Savbucketdawg_54 (DC1), Shinji_54 (DC1), Twister6_57 (DC1), YungMoney_57 (DC1),

Summary by clusters:

There are 4 clusters represented in this pham: P2, F1, singleton, DC1,

Info for manual annotations of cluster DC1:

- Start number 6 was manually annotated 10 times for cluster DC1.

Info for manual annotations of cluster F1:

- Start number 5 was manually annotated 3 times for cluster F1.
- Start number 6 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster P2:

- Start number 5 was manually annotated 1 time for cluster P2.

Gene Information:

Gene: Arri_57 Start: 41875, Stop: 42978, Start Num: 6

Candidate Starts for Arri_57:

(Start: 6 @41875 has 12 MA's), (11, 42019), (12, 42034), (16, 42106), (19, 42172), (21, 42214), (22, 42235), (23, 42271), (25, 42301), (26, 42319), (30, 42454), (39, 42649), (45, 42763), (50, 42955),

Gene: Awesomesauce_67 Start: 40974, Stop: 41990, Start Num: 5

Candidate Starts for Awesomesauce_67:

(2, 40884), (3, 40947), (Start: 5 @40974 has 4 MA's), (Start: 6 @40977 has 12 MA's), (7, 41061), (8, 41070), (9, 41085), (10, 41088), (12, 41133), (13, 41142), (14, 41154), (15, 41160), (17, 41211), (18, 41220), (20, 41271), (22, 41319), (24, 41370), (27, 41448), (29, 41469), (31, 41565), (32, 41574), (35, 41655), (36, 41664), (38, 41715), (40, 41739), (42, 41802), (43, 41808), (46, 41910), (47, 41958),

Gene: Bakery_60 Start: 43055, Stop: 44167, Start Num: 6

Candidate Starts for Bakery_60:

(Start: 6 @43055 has 12 MA's), (11, 43199), (12, 43214), (16, 43286), (19, 43352), (21, 43394), (22, 43415), (23, 43451), (25, 43481), (26, 43499), (30, 43634), (39, 43829), (45, 43952), (50, 44144),

Gene: ChickenDinner_69 Start: 41891, Stop: 42907, Start Num: 5

Candidate Starts for ChickenDinner_69:

(2, 41801), (3, 41864), (Start: 5 @41891 has 4 MA's), (Start: 6 @41894 has 12 MA's), (7, 41978), (8, 41987), (9, 42002), (10, 42005), (12, 42050), (13, 42059), (14, 42071), (15, 42077), (17, 42128), (18, 42137), (20, 42188), (22, 42236), (24, 42287), (27, 42365), (29, 42386), (31, 42482), (32, 42491), (35, 42572), (36, 42581), (38, 42632), (40, 42656), (42, 42719), (43, 42725), (46, 42827), (47, 42875),

Gene: Danyall_56 Start: 41716, Stop: 42828, Start Num: 6

Candidate Starts for Danyall_56:

(Start: 6 @41716 has 12 MA's), (11, 41860), (12, 41875), (16, 41947), (19, 42013), (21, 42055), (22, 42076), (23, 42112), (25, 42142), (26, 42160), (30, 42295), (34, 42385), (39, 42490), (45, 42613), (50, 42805),

Gene: DocMcStuffins_66 Start: 41891, Stop: 42907, Start Num: 5

Candidate Starts for DocMcStuffins_66:

(2, 41801), (3, 41864), (Start: 5 @41891 has 4 MA's), (Start: 6 @41894 has 12 MA's), (7, 41978), (8, 41987), (9, 42002), (10, 42005), (12, 42050), (13, 42059), (14, 42071), (15, 42077), (17, 42128), (18, 42137), (20, 42188), (22, 42236), (24, 42287), (27, 42365), (29, 42386), (31, 42482), (32, 42491), (35, 42572), (36, 42581), (38, 42632), (40, 42656), (42, 42719), (43, 42725), (46, 42827), (47, 42875),

Gene: Fireball_57 Start: 42351, Stop: 43463, Start Num: 6

Candidate Starts for Fireball_57:

(Start: 6 @42351 has 12 MA's), (11, 42495), (12, 42510), (16, 42582), (19, 42648), (21, 42690), (22, 42711), (23, 42747), (25, 42777), (26, 42795), (30, 42930), (39, 43125), (45, 43248), (50, 43440),

Gene: Jambalaya_54 Start: 41514, Stop: 42626, Start Num: 6

Candidate Starts for Jambalaya_54:

(Start: 6 @41514 has 12 MA's), (11, 41658), (12, 41673), (16, 41745), (19, 41811), (21, 41853), (22, 41874), (23, 41910), (25, 41940), (26, 41958), (30, 42093), (39, 42288), (45, 42411), (50, 42603),

Gene: LilSpotty_64 Start: 39685, Stop: 40698, Start Num: 6

Candidate Starts for LilSpotty_64:

(2, 39592), (3, 39655), (Start: 5 @39682 has 4 MA's), (Start: 6 @39685 has 12 MA's), (7, 39769), (8, 39778), (9, 39793), (10, 39796), (12, 39841), (13, 39850), (14, 39862), (15, 39868), (17, 39919), (18, 39928), (20, 39979), (22, 40027), (24, 40078), (27, 40156), (29, 40177), (31, 40273), (32, 40282), (35, 40363), (36, 40372), (38, 40423), (40, 40447), (42, 40510), (43, 40516), (46, 40618), (47, 40666),

Gene: Mbo4_47 Start: 36823, Stop: 37917, Start Num: 5

Candidate Starts for Mbo4_47:

(1, 36694), (Start: 5 @36823 has 4 MA's), (12, 36988), (21, 37168), (26, 37273), (49, 37834),

Gene: Misha28_65 Start: 40979, Stop: 41995, Start Num: 5

Candidate Starts for Misha28_65:

(2, 40889), (3, 40952), (Start: 5 @40979 has 4 MA's), (Start: 6 @40982 has 12 MA's), (7, 41066), (8, 41075), (9, 41090), (10, 41093), (12, 41138), (13, 41147), (14, 41159), (15, 41165), (17, 41216), (18, 41225), (20, 41276), (22, 41324), (24, 41375), (27, 41453), (29, 41474), (31, 41570), (32, 41579), (35, 41660), (36, 41669), (38, 41720), (40, 41744), (42, 41807), (43, 41813), (46, 41915), (47, 41963),

Gene: Mutzi_54 Start: 42843, Stop: 43955, Start Num: 6

Candidate Starts for Mutzi_54:

(Start: 6 @42843 has 12 MA's), (11, 42987), (12, 43002), (16, 43074), (19, 43140), (21, 43182), (22, 43203), (23, 43239), (25, 43269), (26, 43287), (30, 43422), (39, 43617), (45, 43740), (50, 43932),

Gene: OnionKnight_40 Start: 29144, Stop: 30076, Start Num: 4

Candidate Starts for OnionKnight_40:

(Start: 4 @29144 has 1 MA's), (12, 29315), (16, 29387), (21, 29495), (23, 29552), (28, 29657), (29, 29669), (33, 29801), (37, 29906), (39, 29939),

Gene: Piper2020_68 Start: 41877, Stop: 42890, Start Num: 6

Candidate Starts for Piper2020_68:

(2, 41784), (3, 41847), (Start: 5 @41874 has 4 MA's), (Start: 6 @41877 has 12 MA's), (7, 41961), (8, 41970), (9, 41985), (10, 41988), (12, 42033), (13, 42042), (14, 42054), (15, 42060), (17, 42111), (18, 42120), (20, 42171), (22, 42219), (24, 42270), (27, 42348), (29, 42369), (31, 42465), (32, 42474), (35, 42555), (36, 42564), (38, 42615), (40, 42639), (42, 42702), (43, 42708), (46, 42810), (47, 42858),

Gene: Portcullis_56 Start: 41527, Stop: 42639, Start Num: 6

Candidate Starts for Portcullis_56:

(Start: 6 @41527 has 12 MA's), (11, 41671), (12, 41686), (16, 41758), (19, 41824), (21, 41866), (22, 41887), (23, 41923), (25, 41953), (26, 41971), (30, 42106), (39, 42301), (45, 42424), (50, 42616),

Gene: Savbucketdawg_54 Start: 41514, Stop: 42626, Start Num: 6

Candidate Starts for Savbucketdawg_54:

(Start: 6 @41514 has 12 MA's), (11, 41658), (12, 41673), (16, 41745), (19, 41811), (21, 41853), (22, 41874), (23, 41910), (25, 41940), (26, 41958), (30, 42093), (39, 42288), (45, 42411), (50, 42603),

Gene: Shinji_54 Start: 41277, Stop: 42389, Start Num: 6

Candidate Starts for Shinji_54:

(Start: 6 @41277 has 12 MA's), (11, 41421), (12, 41436), (16, 41508), (19, 41574), (21, 41616), (22, 41637), (23, 41673), (25, 41703), (26, 41721), (30, 41856), (39, 42051), (45, 42174), (50, 42366),

Gene: TootsiePop_65 Start: 40979, Stop: 41995, Start Num: 5

Candidate Starts for TootsiePop_65:

(2, 40889), (3, 40952), (Start: 5 @40979 has 4 MA's), (Start: 6 @40982 has 12 MA's), (7, 41066), (8, 41075), (9, 41090), (10, 41093), (12, 41138), (13, 41147), (14, 41159), (15, 41165), (17, 41216), (18, 41225), (20, 41276), (22, 41324), (24, 41375), (27, 41453), (29, 41474), (31, 41570), (32, 41579), (35, 41660), (36, 41669), (38, 41720), (40, 41744), (42, 41807), (43, 41813), (46, 41915), (47, 41963),

Gene: Tortellini_56 Start: 39946, Stop: 40965, Start Num: 5

Candidate Starts for Tortellini_56:

(2, 39856), (3, 39919), (Start: 5 @39946 has 4 MA's), (Start: 6 @39949 has 12 MA's), (7, 40033), (8, 40042), (12, 40105), (13, 40114), (14, 40126), (15, 40132), (17, 40183), (18, 40192), (20, 40243), (22, 40291), (24, 40342), (27, 40420), (29, 40441), (31, 40537), (32, 40546), (35, 40627), (36, 40636), (38, 40687), (40, 40711), (41, 40762), (42, 40771), (43, 40777), (44, 40810), (46, 40876), (48, 40933),

Gene: Twister6_57 Start: 41627, Stop: 42739, Start Num: 6

Candidate Starts for Twister6_57:

(Start: 6 @41627 has 12 MA's), (11, 41771), (12, 41786), (16, 41858), (19, 41924), (21, 41966), (22, 41987), (23, 42023), (25, 42053), (26, 42071), (39, 42401), (45, 42524), (50, 42716),

Gene: YungMoney_57 Start: 45385, Stop: 46497, Start Num: 6

Candidate Starts for YungMoney_57:

(Start: 6 @45385 has 12 MA's), (11, 45529), (12, 45544), (16, 45616), (19, 45682), (21, 45724), (22, 45745), (23, 45781), (25, 45811), (26, 45829), (30, 45964), (39, 46159), (45, 46282), (50, 46474),