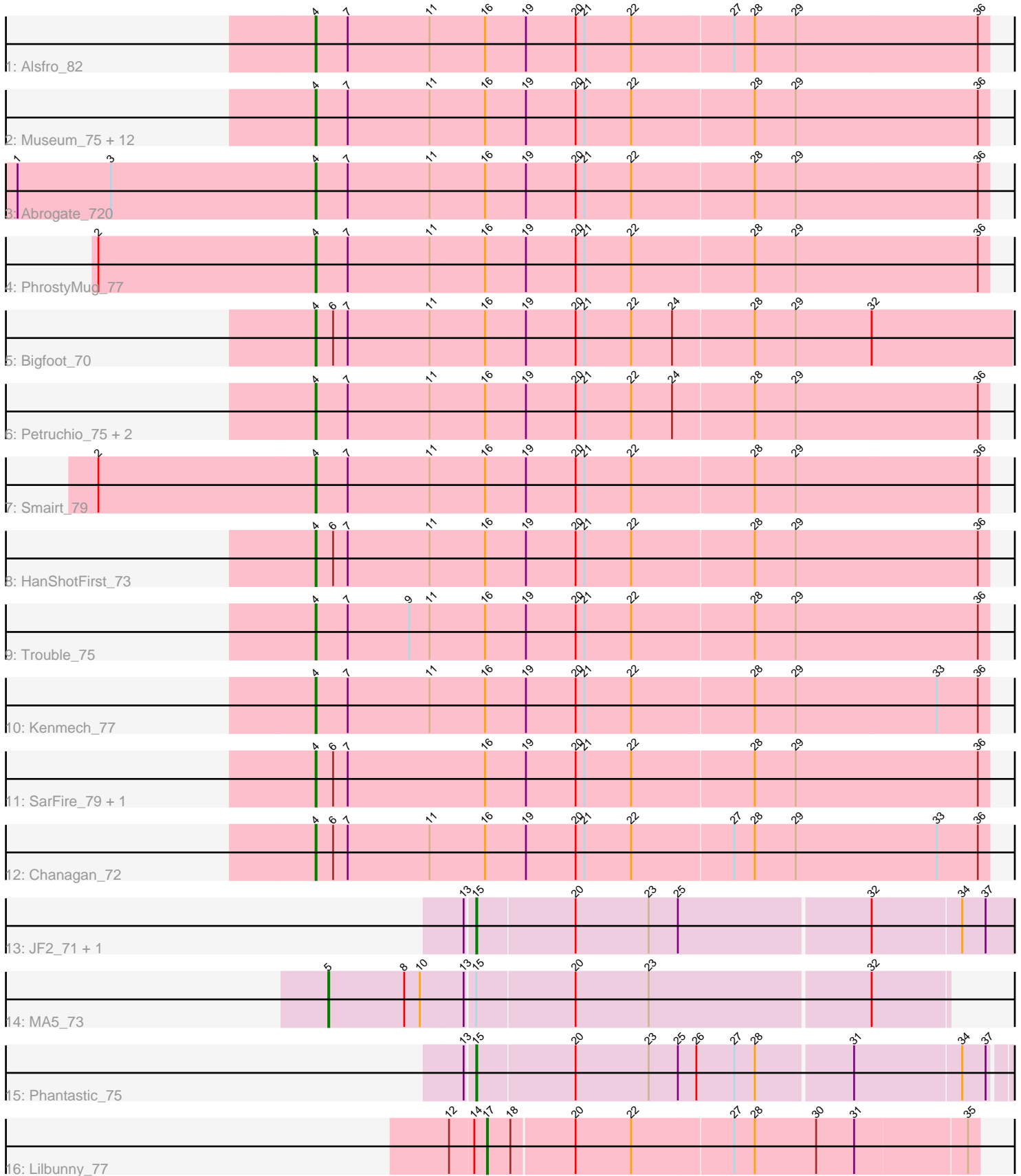


Pham 294946



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 294946 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294946 has 32 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Alsfro_82
- Track 2 : Museum_75, Crispicious1_70, PacerPaul_80, Manatee_73, Arcanine_79, Bircsak_76, Makemake_78, Peterson_74, SkiPole_84, Turj99_71, Magnito_74, Switzer_74, Norz_71
- Track 3 : Abrogate_720
- Track 4 : PhrostyMug_77
- Track 5 : Bigfoot_70
- Track 6 : Petruccio_75, Gyzlar_68, Maroc7_77
- Track 7 : Smairt_79
- Track 8 : HanShotFirst_73
- Track 9 : Trouble_75
- Track 10 : Kenmech_77
- Track 11 : SarFire_79, Thor_79
- Track 12 : Chanagan_72
- Track 13 : JF2_71, JF4_71
- Track 14 : MA5_73
- Track 15 : Phantastic_75
- Track 16 : Lilbunny_77

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

The start number called the most often in the published annotations is 4, it was called in 27 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abrogate_720, Alsfro_82, Arcanine_79, Bigfoot_70, Bircsak_76, Chanagan_72, Crispicious1_70, Gyzlar_68, HanShotFirst_73, Kenmech_77, Magnito_74, Makemake_78, Manatee_73, Maroc7_77, Museum_75, Norz_71, PacerPaul_80, Peterson_74, Petruccio_75, PhrostyMug_77, SarFire_79, SkiPole_84, Smairt_79, Switzer_74, Thor_79, Trouble_75, Turj99_71,

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

-

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

- JF2_71, JF4_71, Lilbunny_77, MA5_73, Phantastic_75,

Summary by start number:

Start 4:

- Found in 27 of 32 (84.4%) of genes in pham
- Manual Annotations of this start: 27 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abrogate_720 (A1), Alsfro_82 (A1), Arcanine_79 (A1), Bigfoot_70 (A1), Bircsak_76 (A1), Chanagan_72 (A1), Crispicious1_70 (A1), Gyzlar_68 (A1), HanShotFirst_73 (A1), Kenmech_77 (A1), Magnito_74 (A1), Makemake_78 (A1), Manatee_73 (A1), Maroc7_77 (A1), Museum_75 (A1), Norz_71 (A1), PacerPaul_80 (A1), Peterson_74 (A1), Petruchio_75 (A1), PhrostyMug_77 (A1), SarFire_79 (A1), SkiPole_84 (A1), Smairt_79 (A1), Switzer_74 (A1), Thor_79 (A1), Trouble_75 (A1), Turj99_71 (A1),

Start 5:

- Found in 1 of 32 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MA5_73 (A3),

Start 15:

- Found in 4 of 32 (12.5%) of genes in pham
- Manual Annotations of this start: 3 of 32
- Called 75.0% of time when present
- Phage (with cluster) where this start called: JF2_71 (A3), JF4_71 (A3), Phantastic_75 (A3),

Start 17:

- Found in 1 of 32 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lilbunny_77 (A6),

Summary by clusters:

There are 3 clusters represented in this pham: A1, A3, A6,

Info for manual annotations of cluster A1:

- Start number 4 was manually annotated 27 times for cluster A1.

Info for manual annotations of cluster A3:

- Start number 5 was manually annotated 1 time for cluster A3.
- Start number 15 was manually annotated 3 times for cluster A3.

Info for manual annotations of cluster A6:

- Start number 17 was manually annotated 1 time for cluster A6.

Gene Information:

Gene: Abrogate_720 Start: 46995, Stop: 46309, Start Num: 4

Candidate Starts for Abrogate_720:

(1, 47301), (3, 47205), (Start: 4 @46995 has 27 MA's), (7, 46962), (11, 46878), (16, 46821), (19, 46779), (20, 46728), (21, 46719), (22, 46671), (28, 46548), (29, 46506), (36, 46320),

Gene: Alsfro_82 Start: 47015, Stop: 46329, Start Num: 4

Candidate Starts for Alsfro_82:

(Start: 4 @47015 has 27 MA's), (7, 46982), (11, 46898), (16, 46841), (19, 46799), (20, 46748), (21, 46739), (22, 46691), (27, 46589), (28, 46568), (29, 46526), (36, 46340),

Gene: Arcanine_79 Start: 48385, Stop: 47699, Start Num: 4

Candidate Starts for Arcanine_79:

(Start: 4 @48385 has 27 MA's), (7, 48352), (11, 48268), (16, 48211), (19, 48169), (20, 48118), (21, 48109), (22, 48061), (28, 47938), (29, 47896), (36, 47710),

Gene: Bigfoot_70 Start: 46517, Stop: 45807, Start Num: 4

Candidate Starts for Bigfoot_70:

(Start: 4 @46517 has 27 MA's), (6, 46499), (7, 46484), (11, 46400), (16, 46343), (19, 46301), (20, 46250), (21, 46241), (22, 46193), (24, 46151), (28, 46070), (29, 46028), (32, 45950),

Gene: Bircsak_76 Start: 49112, Stop: 48426, Start Num: 4

Candidate Starts for Bircsak_76:

(Start: 4 @49112 has 27 MA's), (7, 49079), (11, 48995), (16, 48938), (19, 48896), (20, 48845), (21, 48836), (22, 48788), (28, 48665), (29, 48623), (36, 48437),

Gene: Chanagan_72 Start: 44969, Stop: 44283, Start Num: 4

Candidate Starts for Chanagan_72:

(Start: 4 @44969 has 27 MA's), (6, 44951), (7, 44936), (11, 44852), (16, 44795), (19, 44753), (20, 44702), (21, 44693), (22, 44645), (27, 44543), (28, 44522), (29, 44480), (33, 44336), (36, 44294),

Gene: Crispicous1_70 Start: 44651, Stop: 43965, Start Num: 4

Candidate Starts for Crispicous1_70:

(Start: 4 @44651 has 27 MA's), (7, 44618), (11, 44534), (16, 44477), (19, 44435), (20, 44384), (21, 44375), (22, 44327), (28, 44204), (29, 44162), (36, 43976),

Gene: Gyzlar_68 Start: 43426, Stop: 42740, Start Num: 4

Candidate Starts for Gyzlar_68:

(Start: 4 @43426 has 27 MA's), (7, 43393), (11, 43309), (16, 43252), (19, 43210), (20, 43159), (21, 43150), (22, 43102), (24, 43060), (28, 42979), (29, 42937), (36, 42751),

Gene: HanShotFirst_73 Start: 47020, Stop: 46334, Start Num: 4

Candidate Starts for HanShotFirst_73:

(Start: 4 @47020 has 27 MA's), (6, 47002), (7, 46987), (11, 46903), (16, 46846), (19, 46804), (20, 46753), (21, 46744), (22, 46696), (28, 46573), (29, 46531), (36, 46345),

Gene: JF2_71 Start: 42870, Stop: 42328, Start Num: 15

Candidate Starts for JF2_71:

(13, 42879), (Start: 15 @42870 has 3 MA's), (20, 42771), (23, 42696), (25, 42666), (32, 42474), (34, 42384), (37, 42360),

Gene: JF4_71 Start: 42870, Stop: 42328, Start Num: 15

Candidate Starts for JF4_71:

(13, 42879), (Start: 15 @42870 has 3 MA's), (20, 42771), (23, 42696), (25, 42666), (32, 42474), (34, 42384), (37, 42360),

Gene: Kenmech_77 Start: 47527, Stop: 46841, Start Num: 4

Candidate Starts for Kenmech_77:

(Start: 4 @47527 has 27 MA's), (7, 47494), (11, 47410), (16, 47353), (19, 47311), (20, 47260), (21, 47251), (22, 47203), (28, 47080), (29, 47038), (33, 46894), (36, 46852),

Gene: Lilbunny_77 Start: 43973, Stop: 43482, Start Num: 17

Candidate Starts for Lilbunny_77:

(12, 44009), (14, 43985), (Start: 17 @43973 has 1 MA's), (18, 43949), (20, 43886), (22, 43829), (27, 43727), (28, 43706), (30, 43643), (31, 43604), (35, 43493),

Gene: MA5_73 Start: 44223, Stop: 43606, Start Num: 5

Candidate Starts for MA5_73:

(Start: 5 @44223 has 1 MA's), (8, 44145), (10, 44130), (13, 44088), (Start: 15 @44079 has 3 MA's), (20, 43980), (23, 43905), (32, 43683),

Gene: Magnito_74 Start: 45855, Stop: 45169, Start Num: 4

Candidate Starts for Magnito_74:

(Start: 4 @45855 has 27 MA's), (7, 45822), (11, 45738), (16, 45681), (19, 45639), (20, 45588), (21, 45579), (22, 45531), (28, 45408), (29, 45366), (36, 45180),

Gene: Makemake_78 Start: 47465, Stop: 46779, Start Num: 4

Candidate Starts for Makemake_78:

(Start: 4 @47465 has 27 MA's), (7, 47432), (11, 47348), (16, 47291), (19, 47249), (20, 47198), (21, 47189), (22, 47141), (28, 47018), (29, 46976), (36, 46790),

Gene: Manatee_73 Start: 45395, Stop: 44709, Start Num: 4

Candidate Starts for Manatee_73:

(Start: 4 @45395 has 27 MA's), (7, 45362), (11, 45278), (16, 45221), (19, 45179), (20, 45128), (21, 45119), (22, 45071), (28, 44948), (29, 44906), (36, 44720),

Gene: Maroc7_77 Start: 48458, Stop: 47772, Start Num: 4

Candidate Starts for Maroc7_77:

(Start: 4 @48458 has 27 MA's), (7, 48425), (11, 48341), (16, 48284), (19, 48242), (20, 48191), (21, 48182), (22, 48134), (24, 48092), (28, 48011), (29, 47969), (36, 47783),

Gene: Museum_75 Start: 47134, Stop: 46448, Start Num: 4

Candidate Starts for Museum_75:

(Start: 4 @47134 has 27 MA's), (7, 47101), (11, 47017), (16, 46960), (19, 46918), (20, 46867), (21, 46858), (22, 46810), (28, 46687), (29, 46645), (36, 46459),

Gene: Norz_71 Start: 47607, Stop: 46921, Start Num: 4

Candidate Starts for Norz_71:

(Start: 4 @47607 has 27 MA's), (7, 47574), (11, 47490), (16, 47433), (19, 47391), (20, 47340), (21, 47331), (22, 47283), (28, 47160), (29, 47118), (36, 46932),

Gene: PacerPaul_80 Start: 48480, Stop: 47794, Start Num: 4

Candidate Starts for PacerPaul_80:

(Start: 4 @48480 has 27 MA's), (7, 48447), (11, 48363), (16, 48306), (19, 48264), (20, 48213), (21, 48204), (22, 48156), (28, 48033), (29, 47991), (36, 47805),

Gene: Peterson_74 Start: 47439, Stop: 46753, Start Num: 4

Candidate Starts for Peterson_74:

(Start: 4 @47439 has 27 MA's), (7, 47406), (11, 47322), (16, 47265), (19, 47223), (20, 47172), (21, 47163), (22, 47115), (28, 46992), (29, 46950), (36, 46764),

Gene: Petruccio_75 Start: 45700, Stop: 45014, Start Num: 4

Candidate Starts for Petruccio_75:

(Start: 4 @45700 has 27 MA's), (7, 45667), (11, 45583), (16, 45526), (19, 45484), (20, 45433), (21, 45424), (22, 45376), (24, 45334), (28, 45253), (29, 45211), (36, 45025),

Gene: Phantastic_75 Start: 44335, Stop: 43802, Start Num: 15

Candidate Starts for Phantastic_75:

(13, 44344), (Start: 15 @44335 has 3 MA's), (20, 44236), (23, 44161), (25, 44131), (26, 44113), (27, 44074), (28, 44053), (31, 43957), (34, 43849), (37, 43825),

Gene: PhrostyMug_77 Start: 48272, Stop: 47586, Start Num: 4

Candidate Starts for PhrostyMug_77:

(2, 48494), (Start: 4 @48272 has 27 MA's), (7, 48239), (11, 48155), (16, 48098), (19, 48056), (20, 48005), (21, 47996), (22, 47948), (28, 47825), (29, 47783), (36, 47597),

Gene: SarFire_79 Start: 48509, Stop: 47823, Start Num: 4

Candidate Starts for SarFire_79:

(Start: 4 @48509 has 27 MA's), (6, 48491), (7, 48476), (16, 48335), (19, 48293), (20, 48242), (21, 48233), (22, 48185), (28, 48062), (29, 48020), (36, 47834),

Gene: SkiPole_84 Start: 47837, Stop: 47151, Start Num: 4

Candidate Starts for SkiPole_84:

(Start: 4 @47837 has 27 MA's), (7, 47804), (11, 47720), (16, 47663), (19, 47621), (20, 47570), (21, 47561), (22, 47513), (28, 47390), (29, 47348), (36, 47162),

Gene: Smairt_79 Start: 49288, Stop: 48602, Start Num: 4

Candidate Starts for Smairt_79:

(2, 49510), (Start: 4 @49288 has 27 MA's), (7, 49255), (11, 49171), (16, 49114), (19, 49072), (20, 49021), (21, 49012), (22, 48964), (28, 48841), (29, 48799), (36, 48613),

Gene: Switzer_74 Start: 46808, Stop: 46122, Start Num: 4

Candidate Starts for Switzer_74:

(Start: 4 @46808 has 27 MA's), (7, 46775), (11, 46691), (16, 46634), (19, 46592), (20, 46541), (21, 46532), (22, 46484), (28, 46361), (29, 46319), (36, 46133),

Gene: Thor_79 Start: 47867, Stop: 47181, Start Num: 4

Candidate Starts for Thor_79:

(Start: 4 @47867 has 27 MA's), (6, 47849), (7, 47834), (16, 47693), (19, 47651), (20, 47600), (21, 47591), (22, 47543), (28, 47420), (29, 47378), (36, 47192),

Gene: Trouble_75 Start: 46975, Stop: 46289, Start Num: 4

Candidate Starts for Trouble_75:

(Start: 4 @46975 has 27 MA's), (7, 46942), (9, 46879), (11, 46858), (16, 46801), (19, 46759), (20, 46708), (21, 46699), (22, 46651), (28, 46528), (29, 46486), (36, 46300),

Gene: Turj99_71 Start: 46466, Stop: 45780, Start Num: 4

Candidate Starts for Turj99_71:

(Start: 4 @46466 has 27 MA's), (7, 46433), (11, 46349), (16, 46292), (19, 46250), (20, 46199), (21, 46190), (22, 46142), (28, 46019), (29, 45977), (36, 45791),