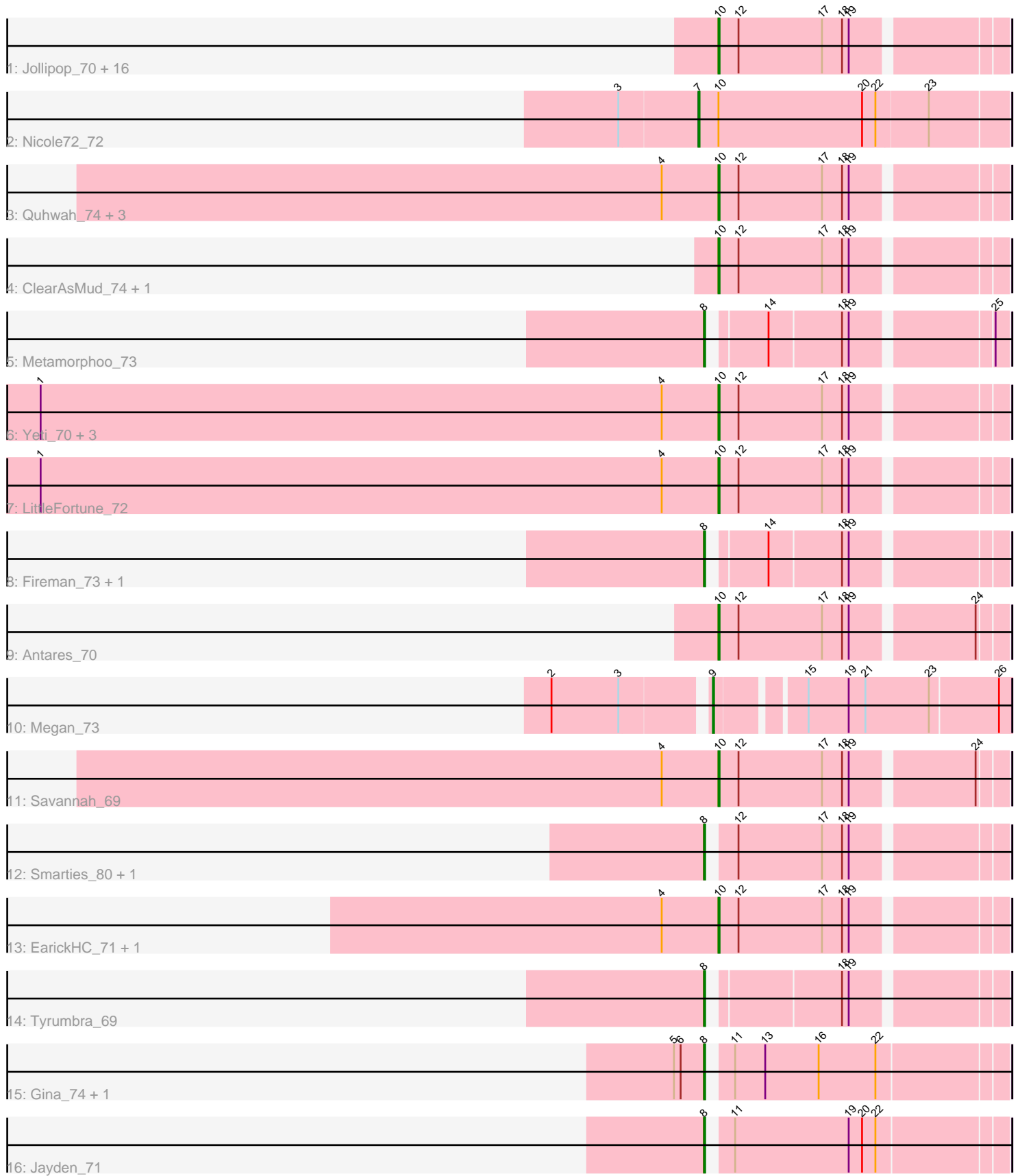


Pham 85978



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 85978 Report

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

Pham number 85978 has 43 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Jollipop_70, Crisis_71, Selwyn23_71, Scumberland_72, Piperis_71, Cranjis_71, Phrancesco_70, PiperSansNom_71, BrazzalePHS_69, Busephilis_69, Hermeonysus_70, Pulchra_72, Paschalis_70, Onika_69, CrazyRich_69, Ramiel05_69, Kowalski_69
- Track 2 : Nicole72_72
- Track 3 : Quhwah_74, Ganandorf_69, Shotgun_70, Jefe_70
- Track 4 : ClearAsMud_74, NoodlelyBoi_71
- Track 5 : Metamorphoo_73
- Track 6 : Yeti_70, Honeyfin_71, PierreOrion_70, Phorgeous_70
- Track 7 : LittleFortune_72
- Track 8 : Fireman_73, RobsFeet_74
- Track 9 : Antares_70
- Track 10 : Megan_73
- Track 11 : Savannah_69
- Track 12 : Smarties_80, Ariadne_80
- Track 13 : EarickHC_71, KaiHaiDragon_71
- Track 14 : Tyumbra_69
- Track 15 : Gina_74, Teamocil_74
- Track 16 : Jayden_71

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 28 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_70, BrazzalePHS_69, Busephilis_69, ClearAsMud_74, Cranjis_71, CrazyRich_69, Crisis_71, EarickHC_71, Ganandorf_69, Hermeonysus_70, Honeyfin_71, Jefe_70, Jollipop_70, KaiHaiDragon_71, Kowalski_69, LittleFortune_72, NoodlelyBoi_71, Onika_69, Paschalis_70, Phorgeous_70, Phrancesco_70, PierreOrion_70, PiperSansNom_71, Piperis_71, Pulchra_72, Quhwah_74, Ramiel05_69, Savannah_69, Scumberland_72, Selwyn23_71, Shotgun_70, Yeti_70,

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

- Nicole72_72,

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

- Ariadne_80, Fireman_73, Gina_74, Jayden_71, Megan_73, Metamorphoo_73, RobsFeet_74, Smarties_80, Teamocil_74, Tyrumbra_69,

Summary by start number:

Start 7:

- Found in 1 of 43 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nicole72_72 (EC),

Start 8:

- Found in 9 of 43 (20.9%) of genes in pham
- Manual Annotations of this start: 9 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariadne_80 (EC), Fireman_73 (EC), Gina_74 (EC), Jayden_71 (EC), Metamorphoo_73 (EC), RobsFeet_74 (EC), Smarties_80 (EC), Teamocil_74 (EC), Tyrumbra_69 (EC),

Start 9:

- Found in 1 of 43 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Megan_73 (EC),

Start 10:

- Found in 33 of 43 (76.7%) of genes in pham
- Manual Annotations of this start: 28 of 39
- Called 97.0% of time when present
- Phage (with cluster) where this start called: Antares_70 (EC), BrazzalePHS_69 (EC), Busephilis_69 (EC), ClearAsMud_74 (EC), Cranjis_71 (EC), CrazyRich_69 (EC), Crisis_71 (EC), EarickHC_71 (EC), Ganandorf_69 (EC), Hermeonysus_70 (EC), Honeyfin_71 (EC), Jefe_70 (EC), Jollipop_70 (EC), KaiHaiDragon_71 (EC), Kowalski_69 (EC), LittleFortune_72 (EC), NoodlelyBoi_71 (EC), Onika_69 (EC), Paschalis_70 (EC), Phorgeous_70 (EC), Phrancesco_70 (EC), PierreOrion_70 (EC), PiperSansNom_71 (EC), Piperis_71 (EC), Pulchra_72 (EC), Quhwah_74 (EC), Ramiel05_69 (EC), Savannah_69 (EC), Scumberland_72 (EC), Selwyn23_71 (EC), Shotgun_70 (EC), Yeti_70 (EC),

Summary by clusters:

There is one cluster represented in this pham: EC

Info for manual annotations of cluster EC:

- Start number 7 was manually annotated 1 time for cluster EC.
- Start number 8 was manually annotated 9 times for cluster EC.
- Start number 9 was manually annotated 1 time for cluster EC.
- Start number 10 was manually annotated 28 times for cluster EC.

Gene Information:

Gene: Antares_70 Start: 43243, Stop: 43485, Start Num: 10

Candidate Starts for Antares_70:

(Start: 10 @43243 has 28 MA's), (12, 43261), (17, 43336), (18, 43354), (19, 43360), (24, 43462),

Gene: Ariadne_80 Start: 44832, Stop: 45074, Start Num: 8

Candidate Starts for Ariadne_80:

(Start: 8 @44832 has 9 MA's), (12, 44850), (17, 44925), (18, 44943), (19, 44949),

Gene: BrazzalePHS_69 Start: 43011, Stop: 43253, Start Num: 10

Candidate Starts for BrazzalePHS_69:

(Start: 10 @43011 has 28 MA's), (12, 43029), (17, 43104), (18, 43122), (19, 43128),

Gene: Busephilis_69 Start: 42950, Stop: 43192, Start Num: 10

Candidate Starts for Busephilis_69:

(Start: 10 @42950 has 28 MA's), (12, 42968), (17, 43043), (18, 43061), (19, 43067),

Gene: ClearAsMud_74 Start: 43531, Stop: 43773, Start Num: 10

Candidate Starts for ClearAsMud_74:

(Start: 10 @43531 has 28 MA's), (12, 43549), (17, 43624), (18, 43642), (19, 43648),

Gene: Cranjis_71 Start: 43198, Stop: 43440, Start Num: 10

Candidate Starts for Cranjis_71:

(Start: 10 @43198 has 28 MA's), (12, 43216), (17, 43291), (18, 43309), (19, 43315),

Gene: CrazyRich_69 Start: 43004, Stop: 43246, Start Num: 10

Candidate Starts for CrazyRich_69:

(Start: 10 @43004 has 28 MA's), (12, 43022), (17, 43097), (18, 43115), (19, 43121),

Gene: Crisis_71 Start: 43013, Stop: 43255, Start Num: 10

Candidate Starts for Crisis_71:

(Start: 10 @43013 has 28 MA's), (12, 43031), (17, 43106), (18, 43124), (19, 43130),

Gene: EarickHC_71 Start: 42935, Stop: 43177, Start Num: 10

Candidate Starts for EarickHC_71:

(4, 42884), (Start: 10 @42935 has 28 MA's), (12, 42953), (17, 43028), (18, 43046), (19, 43052),

Gene: Fireman_73 Start: 44974, Stop: 45210, Start Num: 8

Candidate Starts for Fireman_73:

(Start: 8 @44974 has 9 MA's), (14, 45016), (18, 45079), (19, 45085),

Gene: Ganandorf_69 Start: 43031, Stop: 43273, Start Num: 10

Candidate Starts for Ganandorf_69:

(4, 42980), (Start: 10 @43031 has 28 MA's), (12, 43049), (17, 43124), (18, 43142), (19, 43148),

Gene: Gina_74 Start: 43076, Stop: 43327, Start Num: 8

Candidate Starts for Gina_74:

(5, 43049), (6, 43055), (Start: 8 @43076 has 9 MA's), (11, 43091), (13, 43118), (16, 43166), (22, 43217),

Gene: Hermeonysus_70 Start: 42920, Stop: 43162, Start Num: 10
Candidate Starts for Hermeonysus_70:
(Start: 10 @42920 has 28 MA's), (12, 42938), (17, 43013), (18, 43031), (19, 43037),

Gene: Honeyfin_71 Start: 43180, Stop: 43422, Start Num: 10
Candidate Starts for Honeyfin_71:
(1, 42571), (4, 43129), (Start: 10 @43180 has 28 MA's), (12, 43198), (17, 43273), (18, 43291), (19, 43297),

Gene: Jayden_71 Start: 43432, Stop: 43683, Start Num: 8
Candidate Starts for Jayden_71:
(Start: 8 @43432 has 9 MA's), (11, 43447), (19, 43549), (20, 43561), (22, 43573),

Gene: Jefe_70 Start: 42981, Stop: 43223, Start Num: 10
Candidate Starts for Jefe_70:
(4, 42930), (Start: 10 @42981 has 28 MA's), (12, 42999), (17, 43074), (18, 43092), (19, 43098),

Gene: Jollipop_70 Start: 43369, Stop: 43611, Start Num: 10
Candidate Starts for Jollipop_70:
(Start: 10 @43369 has 28 MA's), (12, 43387), (17, 43462), (18, 43480), (19, 43486),

Gene: KaiHaiDragon_71 Start: 42935, Stop: 43177, Start Num: 10
Candidate Starts for KaiHaiDragon_71:
(4, 42884), (Start: 10 @42935 has 28 MA's), (12, 42953), (17, 43028), (18, 43046), (19, 43052),

Gene: Kowalski_69 Start: 43006, Stop: 43248, Start Num: 10
Candidate Starts for Kowalski_69:
(Start: 10 @43006 has 28 MA's), (12, 43024), (17, 43099), (18, 43117), (19, 43123),

Gene: LittleFortune_72 Start: 43291, Stop: 43533, Start Num: 10
Candidate Starts for LittleFortune_72:
(1, 42682), (4, 43240), (Start: 10 @43291 has 28 MA's), (12, 43309), (17, 43384), (18, 43402), (19, 43408),

Gene: Megan_73 Start: 48707, Stop: 48955, Start Num: 9
Candidate Starts for Megan_73:
(2, 48578), (3, 48638), (Start: 9 @48707 has 1 MA's), (15, 48776), (19, 48812), (21, 48827), (23, 48884), (26, 48944),

Gene: Metamorphoo_73 Start: 44268, Stop: 44504, Start Num: 8
Candidate Starts for Metamorphoo_73:
(Start: 8 @44268 has 9 MA's), (14, 44310), (18, 44373), (19, 44379), (25, 44493),

Gene: Nicole72_72 Start: 48673, Stop: 48945, Start Num: 7
Candidate Starts for Nicole72_72:
(3, 48604), (Start: 7 @48673 has 1 MA's), (Start: 10 @48691 has 28 MA's), (20, 48820), (22, 48832), (23, 48877),

Gene: NoodlelyBoi_71 Start: 43780, Stop: 44022, Start Num: 10
Candidate Starts for NoodlelyBoi_71:
(Start: 10 @43780 has 28 MA's), (12, 43798), (17, 43873), (18, 43891), (19, 43897),

Gene: Onika_69 Start: 43009, Stop: 43251, Start Num: 10

Candidate Starts for Onika_69:

(Start: 10 @43009 has 28 MA's), (12, 43027), (17, 43102), (18, 43120), (19, 43126),

Gene: Paschalis_70 Start: 43034, Stop: 43276, Start Num: 10

Candidate Starts for Paschalis_70:

(Start: 10 @43034 has 28 MA's), (12, 43052), (17, 43127), (18, 43145), (19, 43151),

Gene: Phorgeous_70 Start: 42817, Stop: 43059, Start Num: 10

Candidate Starts for Phorgeous_70:

(1, 42208), (4, 42766), (Start: 10 @42817 has 28 MA's), (12, 42835), (17, 42910), (18, 42928), (19, 42934),

Gene: Phrancesco_70 Start: 43140, Stop: 43382, Start Num: 10

Candidate Starts for Phrancesco_70:

(Start: 10 @43140 has 28 MA's), (12, 43158), (17, 43233), (18, 43251), (19, 43257),

Gene: PierreOrion_70 Start: 43246, Stop: 43488, Start Num: 10

Candidate Starts for PierreOrion_70:

(1, 42637), (4, 43195), (Start: 10 @43246 has 28 MA's), (12, 43264), (17, 43339), (18, 43357), (19, 43363),

Gene: PiperSansNom_71 Start: 43319, Stop: 43561, Start Num: 10

Candidate Starts for PiperSansNom_71:

(Start: 10 @43319 has 28 MA's), (12, 43337), (17, 43412), (18, 43430), (19, 43436),

Gene: Piperis_71 Start: 42942, Stop: 43184, Start Num: 10

Candidate Starts for Piperis_71:

(Start: 10 @42942 has 28 MA's), (12, 42960), (17, 43035), (18, 43053), (19, 43059),

Gene: Pulchra_72 Start: 43338, Stop: 43580, Start Num: 10

Candidate Starts for Pulchra_72:

(Start: 10 @43338 has 28 MA's), (12, 43356), (17, 43431), (18, 43449), (19, 43455),

Gene: Quhwah_74 Start: 43627, Stop: 43869, Start Num: 10

Candidate Starts for Quhwah_74:

(4, 43576), (Start: 10 @43627 has 28 MA's), (12, 43645), (17, 43720), (18, 43738), (19, 43744),

Gene: Ramiel05_69 Start: 43006, Stop: 43248, Start Num: 10

Candidate Starts for Ramiel05_69:

(Start: 10 @43006 has 28 MA's), (12, 43024), (17, 43099), (18, 43117), (19, 43123),

Gene: RobsFeet_74 Start: 44554, Stop: 44790, Start Num: 8

Candidate Starts for RobsFeet_74:

(Start: 8 @44554 has 9 MA's), (14, 44596), (18, 44659), (19, 44665),

Gene: Savannah_69 Start: 43057, Stop: 43299, Start Num: 10

Candidate Starts for Savannah_69:

(4, 43006), (Start: 10 @43057 has 28 MA's), (12, 43075), (17, 43150), (18, 43168), (19, 43174), (24, 43276),

Gene: Scumberland_72 Start: 43252, Stop: 43494, Start Num: 10

Candidate Starts for Scumberland_72:

(Start: 10 @43252 has 28 MA's), (12, 43270), (17, 43345), (18, 43363), (19, 43369),

Gene: Selwyn23_71 Start: 43169, Stop: 43411, Start Num: 10

Candidate Starts for Selwyn23_71:

(Start: 10 @43169 has 28 MA's), (12, 43187), (17, 43262), (18, 43280), (19, 43286),

Gene: Shotgun_70 Start: 42936, Stop: 43178, Start Num: 10

Candidate Starts for Shotgun_70:

(4, 42885), (Start: 10 @42936 has 28 MA's), (12, 42954), (17, 43029), (18, 43047), (19, 43053),

Gene: Smarties_80 Start: 44832, Stop: 45074, Start Num: 8

Candidate Starts for Smarties_80:

(Start: 8 @44832 has 9 MA's), (12, 44850), (17, 44925), (18, 44943), (19, 44949),

Gene: Teamocil_74 Start: 43169, Stop: 43420, Start Num: 8

Candidate Starts for Teamocil_74:

(5, 43142), (6, 43148), (Start: 8 @43169 has 9 MA's), (11, 43184), (13, 43211), (16, 43259), (22, 43310),

Gene: Tyrumbra_69 Start: 43779, Stop: 44015, Start Num: 8

Candidate Starts for Tyrumbra_69:

(Start: 8 @43779 has 9 MA's), (18, 43884), (19, 43890),

Gene: Yeti_70 Start: 42968, Stop: 43210, Start Num: 10

Candidate Starts for Yeti_70:

(1, 42359), (4, 42917), (Start: 10 @42968 has 28 MA's), (12, 42986), (17, 43061), (18, 43079), (19, 43085),