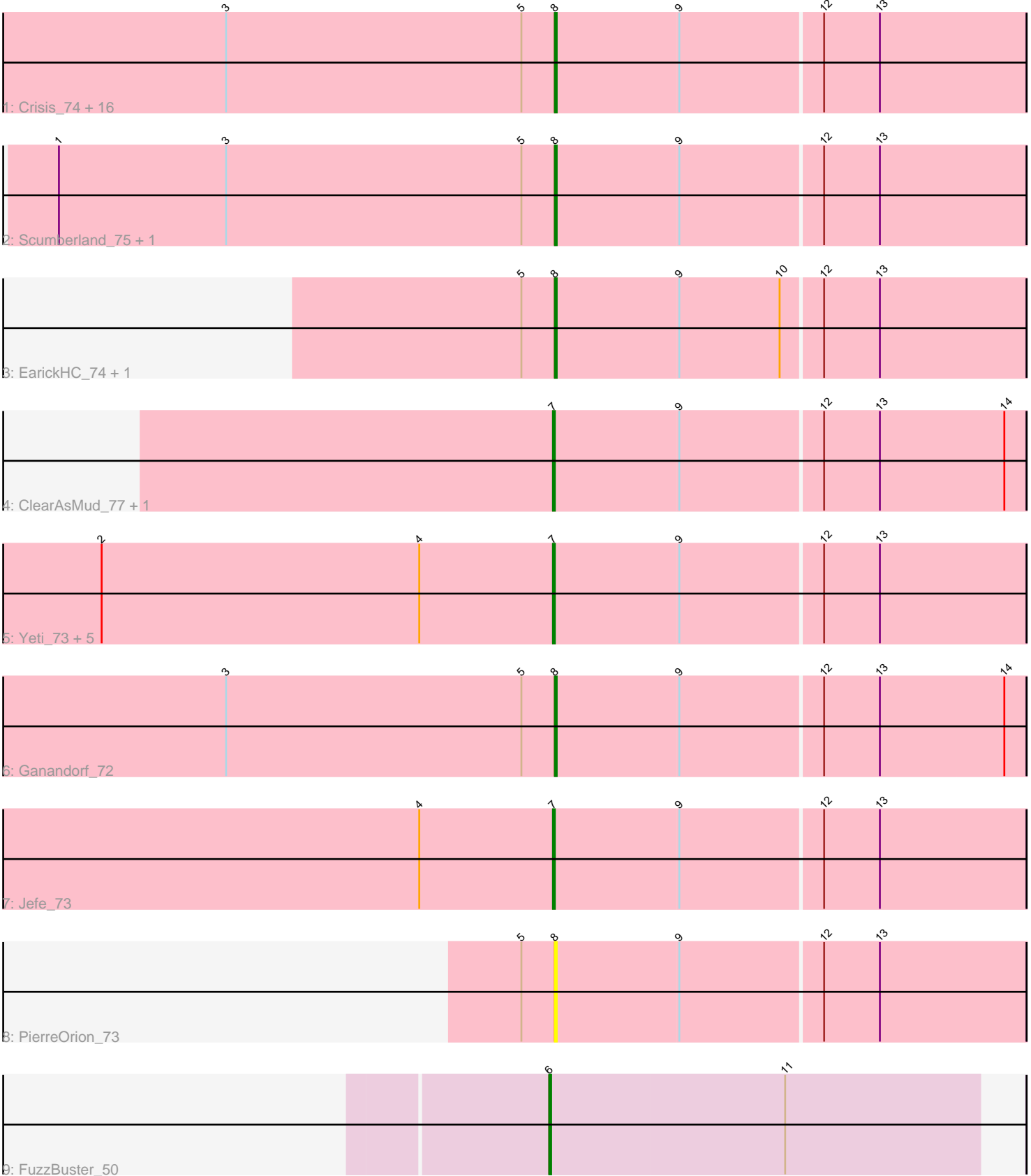


Pham 3031



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 3031 Report

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

Pham number 3031 has 33 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Crisis_74, Quhwah_77, Onika_72, Piperis_74, Cranjis_74, Jollipop_73, Phrancesco_73, Antares_73, Kowalski_72, Pulchra_75, Paschalis_73, Selwyn23_74, Ramiel05_72, Savannah_72, Phorgeous_73, Busephilis_72, BrazzalePHS_72
- Track 2 : Scumberland_75, PiperSansNom_74
- Track 3 : EarickHC_74, KaiHaiDragon_74
- Track 4 : ClearAsMud_77, NoodlelyBoi_74
- Track 5 : Yeti_73, CrazyRich_72, LittleFortune_75, Honeyfin_74, Shotgun_73, Hermeonysus_73
- Track 6 : Ganandorf_72
- Track 7 : Jefe_73
- Track 8 : PierreOrion_73
- Track 9 : FuzzBuster_50

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

The start number called the most often in the published annotations is 8, it was called in 20 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_73, BrazzalePHS_72, Busephilis_72, Cranjis_74, Crisis_74, EarickHC_74, Ganandorf_72, Jollipop_73, KaiHaiDragon_74, Kowalski_72, Onika_72, Paschalis_73, Phorgeous_73, Phrancesco_73, PierreOrion_73, PiperSansNom_74, Piperis_74, Pulchra_75, Quhwah_77, Ramiel05_72, Savannah_72, Scumberland_75, Selwyn23_74,

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

-

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

- ClearAsMud_77, CrazyRich_72, FuzzBuster_50, Hermeonysus_73, Honeyfin_74, Jefe_73, LittleFortune_75, NoodlelyBoi_74, Shotgun_73, Yeti_73,

Summary by start number:

Start 6:

- Found in 1 of 33 (3.0%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FuzzBuster_50 (singleton),

Start 7:

- Found in 9 of 33 (27.3%) of genes in pham
- Manual Annotations of this start: 8 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ClearAsMud_77 (EC), CrazyRich_72 (EC), Hermeonysus_73 (EC), Honeyfin_74 (EC), Jefe_73 (EC), LittleFortune_75 (EC), NoodlelyBoi_74 (EC), Shotgun_73 (EC), Yeti_73 (EC),

Start 8:

- Found in 23 of 33 (69.7%) of genes in pham
- Manual Annotations of this start: 20 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antares_73 (EC), BrazzalePHS_72 (EC), Busephilis_72 (EC), Cranjis_74 (EC), Crisis_74 (EC), EarickHC_74 (EC), Ganandorf_72 (EC), Jollipop_73 (EC), KaiHaiDragon_74 (EC), Kowalski_72 (EC), Onika_72 (EC), Paschalis_73 (EC), Phorgeous_73 (EC), Phrancesco_73 (EC), PierreOrion_73 (EC), PiperSansNom_74 (EC), Piperis_74 (EC), Pulchra_75 (EC), Quhwah_77 (EC), Ramiel05_72 (EC), Savannah_72 (EC), Scumberland_75 (EC), Selwyn23_74 (EC),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, EC,

Info for manual annotations of cluster EC:

- Start number 7 was manually annotated 8 times for cluster EC.
- Start number 8 was manually annotated 20 times for cluster EC.

Gene Information:

Gene: Antares_73 Start: 44011, Stop: 44259, Start Num: 8

Candidate Starts for Antares_73:

(3, 43834), (5, 43993), (Start: 8 @44011 has 20 MA's), (9, 44077), (12, 44152), (13, 44182),

Gene: BrazzalePHS_72 Start: 43779, Stop: 44027, Start Num: 8

Candidate Starts for BrazzalePHS_72:

(3, 43602), (5, 43761), (Start: 8 @43779 has 20 MA's), (9, 43845), (12, 43920), (13, 43950),

Gene: Busephilis_72 Start: 43718, Stop: 43966, Start Num: 8

Candidate Starts for Busephilis_72:

(3, 43541), (5, 43700), (Start: 8 @43718 has 20 MA's), (9, 43784), (12, 43859), (13, 43889),

Gene: ClearAsMud_77 Start: 44298, Stop: 44546, Start Num: 7

Candidate Starts for ClearAsMud_77:

(Start: 7 @44298 has 8 MA's), (9, 44364), (12, 44439), (13, 44469), (14, 44535),

Gene: Cranjis_74 Start: 43966, Stop: 44214, Start Num: 8

Candidate Starts for Cranjis_74:

(3, 43789), (5, 43948), (Start: 8 @43966 has 20 MA's), (9, 44032), (12, 44107), (13, 44137),

Gene: CrazyRich_72 Start: 43771, Stop: 44019, Start Num: 7

Candidate Starts for CrazyRich_72:

(2, 43528), (4, 43699), (Start: 7 @43771 has 8 MA's), (9, 43837), (12, 43912), (13, 43942),

Gene: Crisis_74 Start: 43781, Stop: 44029, Start Num: 8

Candidate Starts for Crisis_74:

(3, 43604), (5, 43763), (Start: 8 @43781 has 20 MA's), (9, 43847), (12, 43922), (13, 43952),

Gene: EarickHC_74 Start: 43703, Stop: 43951, Start Num: 8

Candidate Starts for EarickHC_74:

(5, 43685), (Start: 8 @43703 has 20 MA's), (9, 43769), (10, 43823), (12, 43844), (13, 43874),

Gene: FuzzBuster_50 Start: 31748, Stop: 31518, Start Num: 6

Candidate Starts for FuzzBuster_50:

(Start: 6 @31748 has 1 MA's), (11, 31622),

Gene: Ganandorf_72 Start: 43799, Stop: 44047, Start Num: 8

Candidate Starts for Ganandorf_72:

(3, 43622), (5, 43781), (Start: 8 @43799 has 20 MA's), (9, 43865), (12, 43940), (13, 43970), (14, 44036),

Gene: Hermeonysus_73 Start: 43687, Stop: 43935, Start Num: 7

Candidate Starts for Hermeonysus_73:

(2, 43444), (4, 43615), (Start: 7 @43687 has 8 MA's), (9, 43753), (12, 43828), (13, 43858),

Gene: Honeyfin_74 Start: 43947, Stop: 44195, Start Num: 7

Candidate Starts for Honeyfin_74:

(2, 43704), (4, 43875), (Start: 7 @43947 has 8 MA's), (9, 44013), (12, 44088), (13, 44118),

Gene: Jefe_73 Start: 43748, Stop: 43996, Start Num: 7

Candidate Starts for Jefe_73:

(4, 43676), (Start: 7 @43748 has 8 MA's), (9, 43814), (12, 43889), (13, 43919),

Gene: Jollipop_73 Start: 44137, Stop: 44385, Start Num: 8

Candidate Starts for Jollipop_73:

(3, 43960), (5, 44119), (Start: 8 @44137 has 20 MA's), (9, 44203), (12, 44278), (13, 44308),

Gene: KaiHaiDragon_74 Start: 43703, Stop: 43951, Start Num: 8

Candidate Starts for KaiHaiDragon_74:

(5, 43685), (Start: 8 @43703 has 20 MA's), (9, 43769), (10, 43823), (12, 43844), (13, 43874),

Gene: Kowalski_72 Start: 43774, Stop: 44022, Start Num: 8

Candidate Starts for Kowalski_72:

(3, 43597), (5, 43756), (Start: 8 @43774 has 20 MA's), (9, 43840), (12, 43915), (13, 43945),

Gene: LittleFortune_75 Start: 44058, Stop: 44306, Start Num: 7

Candidate Starts for LittleFortune_75:

(2, 43815), (4, 43986), (Start: 7 @44058 has 8 MA's), (9, 44124), (12, 44199), (13, 44229),

Gene: NoodlelyBoi_74 Start: 44547, Stop: 44795, Start Num: 7

Candidate Starts for NoodlelyBoi_74:

(Start: 7 @44547 has 8 MA's), (9, 44613), (12, 44688), (13, 44718), (14, 44784),

Gene: Onika_72 Start: 43777, Stop: 44025, Start Num: 8

Candidate Starts for Onika_72:

(3, 43600), (5, 43759), (Start: 8 @43777 has 20 MA's), (9, 43843), (12, 43918), (13, 43948),

Gene: Paschalis_73 Start: 43802, Stop: 44050, Start Num: 8

Candidate Starts for Paschalis_73:

(3, 43625), (5, 43784), (Start: 8 @43802 has 20 MA's), (9, 43868), (12, 43943), (13, 43973),

Gene: Phorgeous_73 Start: 43585, Stop: 43833, Start Num: 8

Candidate Starts for Phorgeous_73:

(3, 43408), (5, 43567), (Start: 8 @43585 has 20 MA's), (9, 43651), (12, 43726), (13, 43756),

Gene: Phrancesco_73 Start: 43908, Stop: 44156, Start Num: 8

Candidate Starts for Phrancesco_73:

(3, 43731), (5, 43890), (Start: 8 @43908 has 20 MA's), (9, 43974), (12, 44049), (13, 44079),

Gene: PierreOrion_73 Start: 44014, Stop: 44262, Start Num: 8

Candidate Starts for PierreOrion_73:

(5, 43996), (Start: 8 @44014 has 20 MA's), (9, 44080), (12, 44155), (13, 44185),

Gene: PiperSansNom_74 Start: 44087, Stop: 44335, Start Num: 8

Candidate Starts for PiperSansNom_74:

(1, 43820), (3, 43910), (5, 44069), (Start: 8 @44087 has 20 MA's), (9, 44153), (12, 44228), (13, 44258),

Gene: Piperis_74 Start: 43710, Stop: 43958, Start Num: 8

Candidate Starts for Piperis_74:

(3, 43533), (5, 43692), (Start: 8 @43710 has 20 MA's), (9, 43776), (12, 43851), (13, 43881),

Gene: Pulchra_75 Start: 44106, Stop: 44354, Start Num: 8

Candidate Starts for Pulchra_75:

(3, 43929), (5, 44088), (Start: 8 @44106 has 20 MA's), (9, 44172), (12, 44247), (13, 44277),

Gene: Quhwah_77 Start: 44395, Stop: 44643, Start Num: 8

Candidate Starts for Quhwah_77:

(3, 44218), (5, 44377), (Start: 8 @44395 has 20 MA's), (9, 44461), (12, 44536), (13, 44566),

Gene: Ramiel05_72 Start: 43774, Stop: 44022, Start Num: 8

Candidate Starts for Ramiel05_72:

(3, 43597), (5, 43756), (Start: 8 @43774 has 20 MA's), (9, 43840), (12, 43915), (13, 43945),

Gene: Savannah_72 Start: 43825, Stop: 44073, Start Num: 8

Candidate Starts for Savannah_72:

(3, 43648), (5, 43807), (Start: 8 @43825 has 20 MA's), (9, 43891), (12, 43966), (13, 43996),

Gene: Scumberland_75 Start: 44020, Stop: 44268, Start Num: 8

Candidate Starts for Scumberland_75:

(1, 43753), (3, 43843), (5, 44002), (Start: 8 @44020 has 20 MA's), (9, 44086), (12, 44161), (13, 44191),

Gene: Selwyn23_74 Start: 43937, Stop: 44185, Start Num: 8

Candidate Starts for Selwyn23_74:

(3, 43760), (5, 43919), (Start: 8 @43937 has 20 MA's), (9, 44003), (12, 44078), (13, 44108),

Gene: Shotgun_73 Start: 43703, Stop: 43951, Start Num: 7

Candidate Starts for Shotgun_73:

(2, 43460), (4, 43631), (Start: 7 @43703 has 8 MA's), (9, 43769), (12, 43844), (13, 43874),

Gene: Yeti_73 Start: 43735, Stop: 43983, Start Num: 7

Candidate Starts for Yeti_73:

(2, 43492), (4, 43663), (Start: 7 @43735 has 8 MA's), (9, 43801), (12, 43876), (13, 43906),