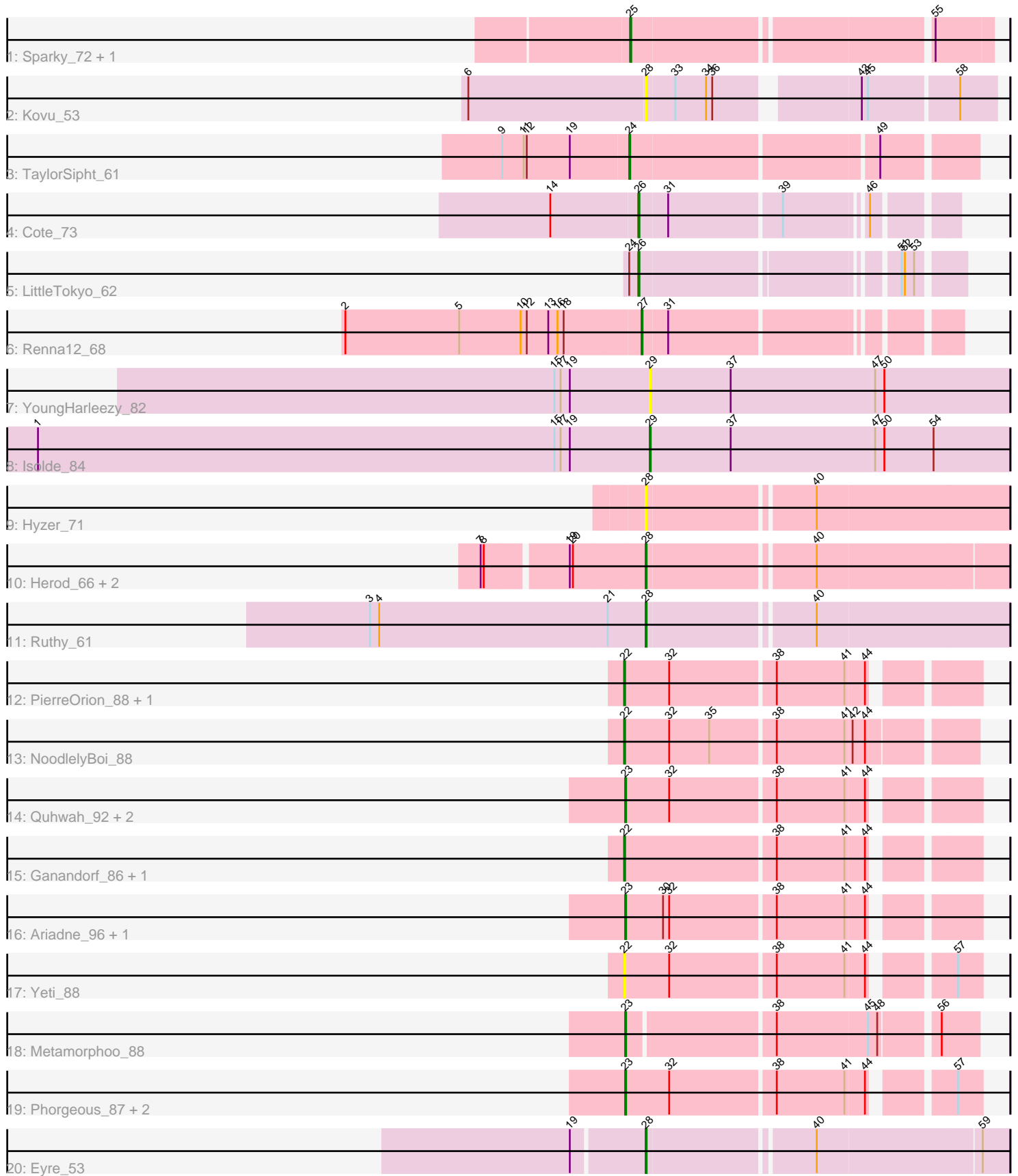


Pham 86460



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 86460 Report

This analysis was run 04/05/24 on database version 557.

Pham number 86460 has 30 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Sparky_72, Farewell_74
- Track 2 : Kovu_53
- Track 3 : TaylorSipht_61
- Track 4 : Cote_73
- Track 5 : LittleTokyo_62
- Track 6 : Renna12_68
- Track 7 : YoungHarleezy_82
- Track 8 : Isolde_84
- Track 9 : Hyzer_71
- Track 10 : Herod_66, Bosnia_63, Hugley_64
- Track 11 : Ruthy_61
- Track 12 : PierreOrion_88, Phrancesco_89
- Track 13 : NoodlelyBoi_88
- Track 14 : Quhwah_92, KaiHaiDragon_89, EarickHC_89
- Track 15 : Ganandorf_86, Antares_89
- Track 16 : Ariadne_96, Smarties_96
- Track 17 : Yeti_88
- Track 18 : Metamorphoo_88
- Track 19 : Phorgeous_87, Honeyfin_87, CrazyRich_86
- Track 20 : Eyre_53

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

The start number called the most often in the published annotations is 23, it was called in 9 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariadne_96, CrazyRich_86, EarickHC_89, Honeyfin_87, KaiHaiDragon_89, Metamorphoo_88, Phorgeous_87, Quhwah_92, Smarties_96,

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

-

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

• Antares_89, Bosnia_63, Cote_73, Eyre_53, Farewell_74, Ganandorf_86, Herod_66, Hugley_64, Hyzer_71, Isolde_84, Kovu_53, LittleTokyo_62, NoodlelyBoi_88, Phrancesco_89, PierreOrion_88, Renna12_68, Ruthy_61, Sparky_72, TaylorSipht_61, Yeti_88, YoungHarleezy_82,

Summary by start number:

Start 22:

- Found in 6 of 30 (20.0%) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antares_89 (EC), Ganandorf_86 (EC), NoodlelyBoi_88 (EC), Phrancesco_89 (EC), PierreOrion_88 (EC), Yeti_88 (EC),

Start 23:

- Found in 9 of 30 (30.0%) of genes in pham
- Manual Annotations of this start: 9 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariadne_96 (EC), CrazyRich_86 (EC), EarickHC_89 (EC), Honeyfin_87 (EC), KaiHaiDragon_89 (EC), Metamorphoo_88 (EC), Phorgeous_87 (EC), Quhwah_92 (EC), Smarties_96 (EC),

Start 24:

- Found in 2 of 30 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 50.0% of time when present
- Phage (with cluster) where this start called: TaylorSipht_61 (AS1),

Start 25:

- Found in 2 of 30 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Farewell_74 (AF), Sparky_72 (AF),

Start 26:

- Found in 2 of 30 (6.7%) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cote_73 (AS2), LittleTokyo_62 (AS2),

Start 27:

- Found in 1 of 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Renna12_68 (AS3),

Start 28:

- Found in 7 of 30 (23.3%) of genes in pham
- Manual Annotations of this start: 4 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bosnia_63 (CZ1), Eyre_53 (singleton), Herod_66 (CZ1), Hugley_64 (CZ1), Hyzer_71 (CZ1), Kovu_53 (AL), Ruthy_61 (DW),

Start 29:

- Found in 2 of 30 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Isolde_84 (AY), YoungHarleezy_82 (AY),

Summary by clusters:

There are 10 clusters represented in this pham: AS3, AS2, AS1, AF, CZ1, singleton, EC, AL, AY, DW,

Info for manual annotations of cluster AF:

- Start number 25 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster AS1:

- Start number 24 was manually annotated 1 time for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 26 was manually annotated 2 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 27 was manually annotated 1 time for cluster AS3.

Info for manual annotations of cluster AY:

- Start number 29 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster CZ1:

- Start number 28 was manually annotated 2 times for cluster CZ1.

Info for manual annotations of cluster DW:

- Start number 28 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster EC:

- Start number 22 was manually annotated 3 times for cluster EC.
- Start number 23 was manually annotated 9 times for cluster EC.

Gene Information:

Gene: Antares_89 Start: 52402, Stop: 52716, Start Num: 22

Candidate Starts for Antares_89:

(Start: 22 @52402 has 3 MA's), (38, 52543), (41, 52609), (44, 52627),

Gene: Ariadne_96 Start: 52784, Stop: 53098, Start Num: 23

Candidate Starts for Ariadne_96:

(Start: 23 @52784 has 9 MA's), (30, 52820), (32, 52826), (38, 52925), (41, 52991), (44, 53009),

Gene: Bosnia_63 Start: 44870, Stop: 45205, Start Num: 28

Candidate Starts for Bosnia_63:

(7, 44720), (8, 44723), (19, 44798), (20, 44801), (Start: 28 @44870 has 4 MA's), (40, 45023),

Gene: Cote_73 Start: 37990, Stop: 38265, Start Num: 26

Candidate Starts for Cote_73:

(14, 37906), (Start: 26 @37990 has 2 MA's), (31, 38017), (39, 38122), (46, 38194),

Gene: CrazyRich_86 Start: 51658, Stop: 51972, Start Num: 23

Candidate Starts for CrazyRich_86:

(Start: 23 @51658 has 9 MA's), (32, 51700), (38, 51799), (41, 51865), (44, 51883), (57, 51949),

Gene: EarickHC_89 Start: 52032, Stop: 52346, Start Num: 23

Candidate Starts for EarickHC_89:

(Start: 23 @52032 has 9 MA's), (32, 52074), (38, 52173), (41, 52239), (44, 52257),

Gene: Eyre_53 Start: 35776, Stop: 36111, Start Num: 28

Candidate Starts for Eyre_53:

(19, 35710), (Start: 28 @35776 has 4 MA's), (40, 35929), (59, 36085),

Gene: Farewell_74 Start: 49038, Stop: 49364, Start Num: 25

Candidate Starts for Farewell_74:

(Start: 25 @49038 has 1 MA's), (55, 49311),

Gene: Ganandorf_86 Start: 51533, Stop: 51847, Start Num: 22

Candidate Starts for Ganandorf_86:

(Start: 22 @51533 has 3 MA's), (38, 51674), (41, 51740), (44, 51758),

Gene: Herod_66 Start: 45224, Stop: 45559, Start Num: 28

Candidate Starts for Herod_66:

(7, 45074), (8, 45077), (19, 45152), (20, 45155), (Start: 28 @45224 has 4 MA's), (40, 45377),

Gene: Honeyfin_87 Start: 51488, Stop: 51802, Start Num: 23

Candidate Starts for Honeyfin_87:

(Start: 23 @51488 has 9 MA's), (32, 51530), (38, 51629), (41, 51695), (44, 51713), (57, 51779),

Gene: Hugley_64 Start: 45204, Stop: 45539, Start Num: 28

Candidate Starts for Hugley_64:

(7, 45054), (8, 45057), (19, 45132), (20, 45135), (Start: 28 @45204 has 4 MA's), (40, 45357),

Gene: Hyzer_71 Start: 46977, Stop: 47315, Start Num: 28

Candidate Starts for Hyzer_71:

(Start: 28 @46977 has 4 MA's), (40, 47130),

Gene: Isolde_84 Start: 48274, Stop: 48624, Start Num: 29

Candidate Starts for Isolde_84:

(1, 47677), (15, 48181), (17, 48187), (19, 48196), (Start: 29 @48274 has 1 MA's), (37, 48352), (47, 48493), (50, 48502), (54, 48550),

Gene: KaiHaiDragon_89 Start: 52032, Stop: 52346, Start Num: 23

Candidate Starts for KaiHaiDragon_89:

(Start: 23 @52032 has 9 MA's), (32, 52074), (38, 52173), (41, 52239), (44, 52257),

Gene: Kovu_53 Start: 29765, Stop: 30076, Start Num: 28

Candidate Starts for Kovu_53:

(6, 29594), (Start: 28 @29765 has 4 MA's), (33, 29792), (34, 29822), (36, 29828), (43, 29951), (45, 29957), (58, 30041),

Gene: LittleTokyo_62 Start: 35151, Stop: 35429, Start Num: 26

Candidate Starts for LittleTokyo_62:

(Start: 24 @35142 has 1 MA's), (Start: 26 @35151 has 2 MA's), (51, 35376), (52, 35379), (53, 35388),

Gene: Metamorphoo_88 Start: 52513, Stop: 52830, Start Num: 23

Candidate Starts for Metamorphoo_88:

(Start: 23 @52513 has 9 MA's), (38, 52648), (45, 52735), (48, 52744), (56, 52795),

Gene: NoodlelyBoi_88 Start: 52313, Stop: 52636, Start Num: 22

Candidate Starts for NoodlelyBoi_88:

(Start: 22 @52313 has 3 MA's), (32, 52355), (35, 52394), (38, 52454), (41, 52520), (42, 52526), (44, 52538),

Gene: Phorgeous_87 Start: 51529, Stop: 51843, Start Num: 23

Candidate Starts for Phorgeous_87:

(Start: 23 @51529 has 9 MA's), (32, 51571), (38, 51670), (41, 51736), (44, 51754), (57, 51820),

Gene: Phrancesco_89 Start: 52295, Stop: 52609, Start Num: 22

Candidate Starts for Phrancesco_89:

(Start: 22 @52295 has 3 MA's), (32, 52337), (38, 52436), (41, 52502), (44, 52520),

Gene: PierreOrion_88 Start: 52004, Stop: 52318, Start Num: 22

Candidate Starts for PierreOrion_88:

(Start: 22 @52004 has 3 MA's), (32, 52046), (38, 52145), (41, 52211), (44, 52229),

Gene: Quhwah_92 Start: 52589, Stop: 52903, Start Num: 23

Candidate Starts for Quhwah_92:

(Start: 23 @52589 has 9 MA's), (32, 52631), (38, 52730), (41, 52796), (44, 52814),

Gene: Renna12_68 Start: 37756, Stop: 38031, Start Num: 27

Candidate Starts for Renna12_68:

(2, 37471), (5, 37582), (10, 37642), (12, 37648), (13, 37669), (16, 37678), (18, 37684), (Start: 27 @37756 has 1 MA's), (31, 37780),

Gene: Ruthy_61 Start: 43412, Stop: 43750, Start Num: 28

Candidate Starts for Ruthy_61:

(3, 43145), (4, 43154), (21, 43376), (Start: 28 @43412 has 4 MA's), (40, 43565),

Gene: Smarties_96 Start: 52781, Stop: 53095, Start Num: 23

Candidate Starts for Smarties_96:

(Start: 23 @52781 has 9 MA's), (30, 52817), (32, 52823), (38, 52922), (41, 52988), (44, 53006),

Gene: Sparky_72 Start: 50632, Stop: 50958, Start Num: 25

Candidate Starts for Sparky_72:

(Start: 25 @50632 has 1 MA's), (55, 50905),

Gene: TaylorSipht_61 Start: 37405, Stop: 37719, Start Num: 24

Candidate Starts for TaylorSipht_61:

(9, 37285), (11, 37306), (12, 37309), (19, 37351), (Start: 24 @37405 has 1 MA's), (49, 37633),

Gene: Yeti_88 Start: 51725, Stop: 52039, Start Num: 22

Candidate Starts for Yeti_88:

(Start: 22 @51725 has 3 MA's), (32, 51767), (38, 51866), (41, 51932), (44, 51950), (57, 52016),

Gene: YoungHarleezy_82 Start: 47912, Stop: 48262, Start Num: 29

Candidate Starts for YoungHarleezy_82:

(15, 47819), (17, 47825), (19, 47834), (Start: 29 @47912 has 1 MA's), (37, 47990), (47, 48131), (50, 48140),