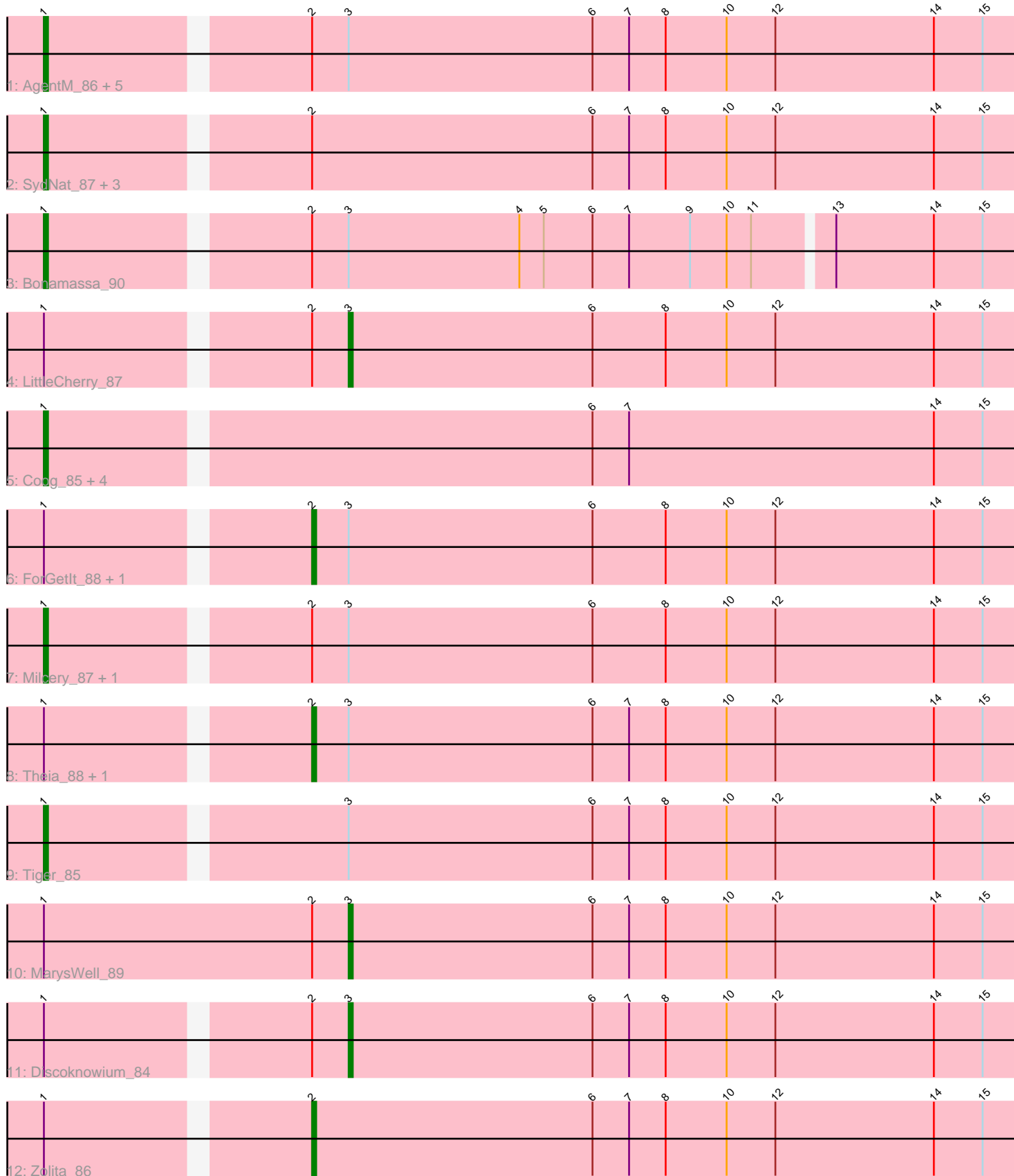


Pham 86290



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 86290 Report

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

Pham number 86290 has 27 members, 0 are drafts.

Phages represented in each track:

- Track 1 : AgentM_86, Phlorence_85, Dublin_88, Conspiracy_87, Jovo_85, Aragog_87
- Track 2 : SydNat_87, Archetta_76, Ghoulboy_87, Bluefalcon_83
- Track 3 : Bonamassa_90
- Track 4 : LittleCherry_87
- Track 5 : Coog_85, Swirley_88, Cuco_87, Midas2_85, Tarynearal_90
- Track 6 : ForGetIt_88, HuhtaEnerson15_86
- Track 7 : Milcery_87, PickleBack_89
- Track 8 : Theia_88, Lev2_87
- Track 9 : Tiger_85
- Track 10 : MarysWell_89
- Track 11 : Discoknowium_84
- Track 12 : Zolita_86

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

The start number called the most often in the published annotations is 1, it was called in 19 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AgentM_86, Aragog_87, Archetta_76, Bluefalcon_83, Bonamassa_90, Conspiracy_87, Coog_85, Cuco_87, Dublin_88, Ghoulboy_87, Jovo_85, Midas2_85, Milcery_87, Phlorence_85, PickleBack_89, Swirley_88, SydNat_87, Tarynearal_90, Tiger_85,

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

- Discoknowium_84, ForGetIt_88, HuhtaEnerson15_86, Lev2_87, LittleCherry_87, MarysWell_89, Theia_88, Zolita_86,

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

-

Summary by start number:

Start 1:

- Found in 27 of 27 (100.0%) of genes in pham
- Manual Annotations of this start: 19 of 27
- Called 70.4% of time when present
- Phage (with cluster) where this start called: AgentM_86 (A5), Aragog_87 (A5), Archetta_76 (A5), Bluefalcon_83 (A5), Bonamassa_90 (A5), Conspiracy_87 (A5), Coog_85 (A5), Cuco_87 (A5), Dublin_88 (A5), Ghoulboy_87 (A5), Jovo_85 (A5), Midas2_85 (A5), Milcery_87 (A5), Phlorence_85 (A5), PickleBack_89 (A5), Swirley_88 (A5), SydNat_87 (A5), Tarynearal_90 (A5), Tiger_85 (A5),

Start 2:

- Found in 21 of 27 (77.8%) of genes in pham
- Manual Annotations of this start: 5 of 27
- Called 23.8% of time when present
- Phage (with cluster) where this start called: ForGetIt_88 (A5), HuhtaEnerson15_86 (A5), Lev2_87 (A5), Theia_88 (A5), Zolita_86 (A5),

Start 3:

- Found in 17 of 27 (63.0%) of genes in pham
- Manual Annotations of this start: 3 of 27
- Called 17.6% of time when present
- Phage (with cluster) where this start called: Discoknowium_84 (A5), LittleCherry_87 (A5), MarysWell_89 (A5),

Summary by clusters:

There is one cluster represented in this pham: A5

Info for manual annotations of cluster A5:

- Start number 1 was manually annotated 19 times for cluster A5.
- Start number 2 was manually annotated 5 times for cluster A5.
- Start number 3 was manually annotated 3 times for cluster A5.

Gene Information:

Gene: AgentM_86 Start: 50011, Stop: 49778, Start Num: 1

Candidate Starts for AgentM_86:

(Start: 1 @50011 has 19 MA's), (Start: 2 @49951 has 5 MA's), (Start: 3 @49942 has 3 MA's), (6, 49882), (7, 49873), (8, 49864), (10, 49849), (12, 49837), (14, 49798), (15, 49786),

Gene: Aragog_87 Start: 50320, Stop: 50087, Start Num: 1

Candidate Starts for Aragog_87:

(Start: 1 @50320 has 19 MA's), (Start: 2 @50260 has 5 MA's), (Start: 3 @50251 has 3 MA's), (6, 50191), (7, 50182), (8, 50173), (10, 50158), (12, 50146), (14, 50107), (15, 50095),

Gene: Archetta_76 Start: 46910, Stop: 46677, Start Num: 1

Candidate Starts for Archetta_76:

(Start: 1 @46910 has 19 MA's), (Start: 2 @46850 has 5 MA's), (6, 46781), (7, 46772), (8, 46763), (10, 46748), (12, 46736), (14, 46697), (15, 46685),

Gene: Bluefalcon_83 Start: 50553, Stop: 50320, Start Num: 1

Candidate Starts for Bluefalcon_83:

(Start: 1 @50553 has 19 MA's), (Start: 2 @50493 has 5 MA's), (6, 50424), (7, 50415), (8, 50406), (10, 50391), (12, 50379), (14, 50340), (15, 50328),

Gene: Bonamassa_90 Start: 50681, Stop: 50451, Start Num: 1

Candidate Starts for Bonamassa_90:

(Start: 1 @50681 has 19 MA's), (Start: 2 @50621 has 5 MA's), (Start: 3 @50612 has 3 MA's), (4, 50570), (5, 50564), (6, 50552), (7, 50543), (9, 50528), (10, 50519), (11, 50513), (13, 50495), (14, 50471), (15, 50459),

Gene: Conspiracy_87 Start: 50263, Stop: 50030, Start Num: 1

Candidate Starts for Conspiracy_87:

(Start: 1 @50263 has 19 MA's), (Start: 2 @50203 has 5 MA's), (Start: 3 @50194 has 3 MA's), (6, 50134), (7, 50125), (8, 50116), (10, 50101), (12, 50089), (14, 50050), (15, 50038),

Gene: Coog_85 Start: 50715, Stop: 50482, Start Num: 1

Candidate Starts for Coog_85:

(Start: 1 @50715 has 19 MA's), (6, 50586), (7, 50577), (14, 50502), (15, 50490),

Gene: Cuco_87 Start: 50465, Stop: 50232, Start Num: 1

Candidate Starts for Cuco_87:

(Start: 1 @50465 has 19 MA's), (6, 50336), (7, 50327), (14, 50252), (15, 50240),

Gene: Discoknowium_84 Start: 49661, Stop: 49497, Start Num: 3

Candidate Starts for Discoknowium_84:

(Start: 1 @49730 has 19 MA's), (Start: 2 @49670 has 5 MA's), (Start: 3 @49661 has 3 MA's), (6, 49601), (7, 49592), (8, 49583), (10, 49568), (12, 49556), (14, 49517), (15, 49505),

Gene: Dublin_88 Start: 49780, Stop: 49541, Start Num: 1

Candidate Starts for Dublin_88:

(Start: 1 @49780 has 19 MA's), (Start: 2 @49714 has 5 MA's), (Start: 3 @49705 has 3 MA's), (6, 49645), (7, 49636), (8, 49627), (10, 49612), (12, 49600), (14, 49561), (15, 49549),

Gene: ForGetIt_88 Start: 50498, Stop: 50325, Start Num: 2

Candidate Starts for ForGetIt_88:

(Start: 1 @50558 has 19 MA's), (Start: 2 @50498 has 5 MA's), (Start: 3 @50489 has 3 MA's), (6, 50429), (8, 50411), (10, 50396), (12, 50384), (14, 50345), (15, 50333),

Gene: Ghoulboy_87 Start: 50689, Stop: 50456, Start Num: 1

Candidate Starts for Ghoulboy_87:

(Start: 1 @50689 has 19 MA's), (Start: 2 @50629 has 5 MA's), (6, 50560), (7, 50551), (8, 50542), (10, 50527), (12, 50515), (14, 50476), (15, 50464),

Gene: HuhtaEnerson15_86 Start: 50549, Stop: 50376, Start Num: 2

Candidate Starts for HuhtaEnerson15_86:

(Start: 1 @50609 has 19 MA's), (Start: 2 @50549 has 5 MA's), (Start: 3 @50540 has 3 MA's), (6, 50480), (8, 50462), (10, 50447), (12, 50435), (14, 50396), (15, 50384),

Gene: Jovo_85 Start: 50826, Stop: 50593, Start Num: 1

Candidate Starts for Jovo_85:

(Start: 1 @50826 has 19 MA's), (Start: 2 @50766 has 5 MA's), (Start: 3 @50757 has 3 MA's), (6, 50697), (7, 50688), (8, 50679), (10, 50664), (12, 50652), (14, 50613), (15, 50601),

Gene: Lev2_87 Start: 50119, Stop: 49946, Start Num: 2

Candidate Starts for Lev2_87:

(Start: 1 @50179 has 19 MA's), (Start: 2 @50119 has 5 MA's), (Start: 3 @50110 has 3 MA's), (6, 50050), (7, 50041), (8, 50032), (10, 50017), (12, 50005), (14, 49966), (15, 49954),

Gene: LittleCherry_87 Start: 50128, Stop: 49964, Start Num: 3

Candidate Starts for LittleCherry_87:

(Start: 1 @50197 has 19 MA's), (Start: 2 @50137 has 5 MA's), (Start: 3 @50128 has 3 MA's), (6, 50068), (8, 50050), (10, 50035), (12, 50023), (14, 49984), (15, 49972),

Gene: MarysWell_89 Start: 50894, Stop: 50730, Start Num: 3

Candidate Starts for MarysWell_89:

(Start: 1 @50969 has 19 MA's), (Start: 2 @50903 has 5 MA's), (Start: 3 @50894 has 3 MA's), (6, 50834), (7, 50825), (8, 50816), (10, 50801), (12, 50789), (14, 50750), (15, 50738),

Gene: Midas2_85 Start: 50715, Stop: 50482, Start Num: 1

Candidate Starts for Midas2_85:

(Start: 1 @50715 has 19 MA's), (6, 50586), (7, 50577), (14, 50502), (15, 50490),

Gene: Milcery_87 Start: 50493, Stop: 50260, Start Num: 1

Candidate Starts for Milcery_87:

(Start: 1 @50493 has 19 MA's), (Start: 2 @50433 has 5 MA's), (Start: 3 @50424 has 3 MA's), (6, 50364), (8, 50346), (10, 50331), (12, 50319), (14, 50280), (15, 50268),

Gene: Phlorence_85 Start: 49911, Stop: 49678, Start Num: 1

Candidate Starts for Phlorence_85:

(Start: 1 @49911 has 19 MA's), (Start: 2 @49851 has 5 MA's), (Start: 3 @49842 has 3 MA's), (6, 49782), (7, 49773), (8, 49764), (10, 49749), (12, 49737), (14, 49698), (15, 49686),

Gene: PickleBack_89 Start: 50365, Stop: 50132, Start Num: 1

Candidate Starts for PickleBack_89:

(Start: 1 @50365 has 19 MA's), (Start: 2 @50305 has 5 MA's), (Start: 3 @50296 has 3 MA's), (6, 50236), (8, 50218), (10, 50203), (12, 50191), (14, 50152), (15, 50140),

Gene: Swirley_88 Start: 49217, Stop: 48984, Start Num: 1

Candidate Starts for Swirley_88:

(Start: 1 @49217 has 19 MA's), (6, 49088), (7, 49079), (14, 49004), (15, 48992),

Gene: SydNat_87 Start: 50698, Stop: 50465, Start Num: 1

Candidate Starts for SydNat_87:

(Start: 1 @50698 has 19 MA's), (Start: 2 @50638 has 5 MA's), (6, 50569), (7, 50560), (8, 50551), (10, 50536), (12, 50524), (14, 50485), (15, 50473),

Gene: Tarynearal_90 Start: 50652, Stop: 50419, Start Num: 1

Candidate Starts for Tarynearal_90:

(Start: 1 @50652 has 19 MA's), (6, 50523), (7, 50514), (14, 50439), (15, 50427),

Gene: Theia_88 Start: 50982, Stop: 50809, Start Num: 2

Candidate Starts for Theia_88:

(Start: 1 @51042 has 19 MA's), (Start: 2 @50982 has 5 MA's), (Start: 3 @50973 has 3 MA's), (6, 50913), (7, 50904), (8, 50895), (10, 50880), (12, 50868), (14, 50829), (15, 50817),

Gene: Tiger_85 Start: 49832, Stop: 49599, Start Num: 1

Candidate Starts for Tiger_85:

(Start: 1 @49832 has 19 MA's), (Start: 3 @49763 has 3 MA's), (6, 49703), (7, 49694), (8, 49685), (10, 49670), (12, 49658), (14, 49619), (15, 49607),

Gene: Zolita_86 Start: 50621, Stop: 50448, Start Num: 2

Candidate Starts for Zolita_86:

(Start: 1 @50681 has 19 MA's), (Start: 2 @50621 has 5 MA's), (6, 50552), (7, 50543), (8, 50534), (10, 50519), (12, 50507), (14, 50468), (15, 50456),