



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 86247 Report

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

Pham number 86247 has 28 members, 1 are drafts.

Phages represented in each track:

- Track 1 : HuhtaEnerson15_76, George_73, Discoknowium_75, PickleBack_78, Lev2_78, ForGetIt_78, Jovo_77, Bonamassa_78, Aragog_77, LittleCherry_77, Tarynearal_77
- Track 2 : Cuco_77, Bluefalcon_73, Ghoulboy_77, Dublin_78, Theia_78, Coog_75, SydNat_77, Midas2_75, Swirley_78, MarysWell_78, Micasa_76, Zolita_76, Milcery_77
- Track 3 : Conspiracy_78, Tiger_76
- Track 4 : AgentM_77, Phlorence_76

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 27 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AgentM_77, Aragog_77, Bluefalcon_73, Bonamassa_78, Conspiracy_78, Coog_75, Cuco_77, Discoknowium_75, Dublin_78, ForGetIt_78, George_73, Ghoulboy_77, HuhtaEnerson15_76, Jovo_77, Lev2_78, LittleCherry_77, MarysWell_78, Micasa_76, Midas2_75, Milcery_77, Phlorence_76, PickleBack_78, Swirley_78, SydNat_77, Tarynearal_77, Theia_78, Tiger_76, Zolita_76,

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

-

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

-

Summary by start number:

Start 1:

- Found in 28 of 28 (100.0%) of genes in pham
- Manual Annotations of this start: 27 of 27
- Called 100.0% of time when present

- Phage (with cluster) where this start called: AgentM_77 (A5), Aragog_77 (A5), Bluefalcon_73 (A5), Bonamassa_78 (A5), Conspiracy_78 (A5), Coog_75 (A5), Cuco_77 (A5), Discoknowium_75 (A5), Dublin_78 (A5), ForGetIt_78 (A5), George_73 (A5), Ghouboy_77 (A5), HuhtaEnerson15_76 (A5), Jovo_77 (A5), Lev2_78 (A5), LittleCherry_77 (A5), MarysWell_78 (A5), Micasa_76 (A5), Midas2_75 (A5), Milcery_77 (A5), Phlorence_76 (A5), PickleBack_78 (A5), Swirley_78 (A5), SydNat_77 (A5), Tarynearal_77 (A5), Theia_78 (A5), Tiger_76 (A5), Zolita_76 (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 27 times for cluster A5.

Gene Information:

Gene: AgentM_77 Start: 46138, Stop: 45512, Start Num: 1

Candidate Starts for AgentM_77:

(Start: 1 @46138 has 27 MA's), (2, 46084), (3, 46024), (4, 46021), (5, 45994), (6, 45982), (7, 45901), (8, 45835), (10, 45760), (11, 45757), (12, 45688), (13, 45544),

Gene: Aragog_77 Start: 46156, Stop: 45530, Start Num: 1

Candidate Starts for Aragog_77:

(Start: 1 @46156 has 27 MA's), (2, 46102), (3, 46042), (4, 46039), (6, 46000), (7, 45919), (8, 45853), (10, 45778), (11, 45775), (12, 45706), (13, 45562),

Gene: Bluefalcon_73 Start: 46087, Stop: 45461, Start Num: 1

Candidate Starts for Bluefalcon_73:

(Start: 1 @46087 has 27 MA's), (2, 46033), (3, 45973), (4, 45970), (6, 45931), (7, 45850), (8, 45784), (9, 45721), (10, 45709), (11, 45706), (12, 45637), (13, 45493),

Gene: Bonamassa_78 Start: 46477, Stop: 45851, Start Num: 1

Candidate Starts for Bonamassa_78:

(Start: 1 @46477 has 27 MA's), (2, 46423), (3, 46363), (4, 46360), (6, 46321), (7, 46240), (8, 46174), (10, 46099), (11, 46096), (12, 46027), (13, 45883),

Gene: Conspiracy_78 Start: 46378, Stop: 45752, Start Num: 1

Candidate Starts for Conspiracy_78:

(Start: 1 @46378 has 27 MA's), (2, 46324), (3, 46264), (4, 46261), (5, 46234), (6, 46222), (7, 46141), (8, 46075), (9, 46012), (10, 46000), (11, 45997), (12, 45928), (13, 45784),

Gene: Coog_75 Start: 46289, Stop: 45663, Start Num: 1

Candidate Starts for Coog_75:

(Start: 1 @46289 has 27 MA's), (2, 46235), (3, 46175), (4, 46172), (6, 46133), (7, 46052), (8, 45986), (9, 45923), (10, 45911), (11, 45908), (12, 45839), (13, 45695),

Gene: Cuco_77 Start: 46149, Stop: 45523, Start Num: 1

Candidate Starts for Cuco_77:

(Start: 1 @46149 has 27 MA's), (2, 46095), (3, 46035), (4, 46032), (6, 45993), (7, 45912), (8, 45846), (9, 45783), (10, 45771), (11, 45768), (12, 45699), (13, 45555),

Gene: Discoknowium_75 Start: 45895, Stop: 45269, Start Num: 1

Candidate Starts for Discoknowium_75:

(Start: 1 @45895 has 27 MA's), (2, 45841), (3, 45781), (4, 45778), (6, 45739), (7, 45658), (8, 45592), (10, 45517), (11, 45514), (12, 45445), (13, 45301),

Gene: Dublin_78 Start: 46421, Stop: 45795, Start Num: 1

Candidate Starts for Dublin_78:

(Start: 1 @46421 has 27 MA's), (2, 46367), (3, 46307), (4, 46304), (6, 46265), (7, 46184), (8, 46118), (9, 46055), (10, 46043), (11, 46040), (12, 45971), (13, 45827),

Gene: ForGetIt_78 Start: 46406, Stop: 45780, Start Num: 1

Candidate Starts for ForGetIt_78:

(Start: 1 @46406 has 27 MA's), (2, 46352), (3, 46292), (4, 46289), (6, 46250), (7, 46169), (8, 46103), (10, 46028), (11, 46025), (12, 45956), (13, 45812),

Gene: George_73 Start: 46648, Stop: 46022, Start Num: 1

Candidate Starts for George_73:

(Start: 1 @46648 has 27 MA's), (2, 46594), (3, 46534), (4, 46531), (6, 46492), (7, 46411), (8, 46345), (10, 46270), (11, 46267), (12, 46198), (13, 46054),

Gene: Ghoulboy_77 Start: 46362, Stop: 45736, Start Num: 1

Candidate Starts for Ghoulboy_77:

(Start: 1 @46362 has 27 MA's), (2, 46308), (3, 46248), (4, 46245), (6, 46206), (7, 46125), (8, 46059), (9, 45996), (10, 45984), (11, 45981), (12, 45912), (13, 45768),

Gene: HuhtaEnerson15_76 Start: 46130, Stop: 45504, Start Num: 1

Candidate Starts for HuhtaEnerson15_76:

(Start: 1 @46130 has 27 MA's), (2, 46076), (3, 46016), (4, 46013), (6, 45974), (7, 45893), (8, 45827), (10, 45752), (11, 45749), (12, 45680), (13, 45536),

Gene: Jovo_77 Start: 46662, Stop: 46036, Start Num: 1

Candidate Starts for Jovo_77:

(Start: 1 @46662 has 27 MA's), (2, 46608), (3, 46548), (4, 46545), (6, 46506), (7, 46425), (8, 46359), (10, 46284), (11, 46281), (12, 46212), (13, 46068),

Gene: Lev2_78 Start: 46294, Stop: 45668, Start Num: 1

Candidate Starts for Lev2_78:

(Start: 1 @46294 has 27 MA's), (2, 46240), (3, 46180), (4, 46177), (6, 46138), (7, 46057), (8, 45991), (10, 45916), (11, 45913), (12, 45844), (13, 45700),

Gene: LittleCherry_77 Start: 46000, Stop: 45374, Start Num: 1

Candidate Starts for LittleCherry_77:

(Start: 1 @46000 has 27 MA's), (2, 45946), (3, 45886), (4, 45883), (6, 45844), (7, 45763), (8, 45697), (10, 45622), (11, 45619), (12, 45550), (13, 45406),

Gene: MarysWell_78 Start: 46664, Stop: 46038, Start Num: 1

Candidate Starts for MarysWell_78:

(Start: 1 @46664 has 27 MA's), (2, 46610), (3, 46550), (4, 46547), (6, 46508), (7, 46427), (8, 46361), (9, 46298), (10, 46286), (11, 46283), (12, 46214), (13, 46070),

Gene: Micasa_76 Start: 46386, Stop: 45760, Start Num: 1

Candidate Starts for Micasa_76:

(Start: 1 @46386 has 27 MA's), (2, 46332), (3, 46272), (4, 46269), (6, 46230), (7, 46149), (8, 46083), (9, 46020), (10, 46008), (11, 46005), (12, 45936), (13, 45792),

Gene: Midas2_75 Start: 46289, Stop: 45663, Start Num: 1

Candidate Starts for Midas2_75:

(Start: 1 @46289 has 27 MA's), (2, 46235), (3, 46175), (4, 46172), (6, 46133), (7, 46052), (8, 45986), (9, 45923), (10, 45911), (11, 45908), (12, 45839), (13, 45695),

Gene: Milcery_77 Start: 46294, Stop: 45668, Start Num: 1

Candidate Starts for Milcery_77:

(Start: 1 @46294 has 27 MA's), (2, 46240), (3, 46180), (4, 46177), (6, 46138), (7, 46057), (8, 45991), (9, 45928), (10, 45916), (11, 45913), (12, 45844), (13, 45700),

Gene: Phlorence_76 Start: 46038, Stop: 45412, Start Num: 1

Candidate Starts for Phlorence_76:

(Start: 1 @46038 has 27 MA's), (2, 45984), (3, 45924), (4, 45921), (5, 45894), (6, 45882), (7, 45801), (8, 45735), (10, 45660), (11, 45657), (12, 45588), (13, 45444),

Gene: PickleBack_78 Start: 46213, Stop: 45587, Start Num: 1

Candidate Starts for PickleBack_78:

(Start: 1 @46213 has 27 MA's), (2, 46159), (3, 46099), (4, 46096), (6, 46057), (7, 45976), (8, 45910), (10, 45835), (11, 45832), (12, 45763), (13, 45619),

Gene: Swirley_78 Start: 46321, Stop: 45695, Start Num: 1

Candidate Starts for Swirley_78:

(Start: 1 @46321 has 27 MA's), (2, 46267), (3, 46207), (4, 46204), (6, 46165), (7, 46084), (8, 46018), (9, 45955), (10, 45943), (11, 45940), (12, 45871), (13, 45727),

Gene: SydNat_77 Start: 46371, Stop: 45745, Start Num: 1

Candidate Starts for SydNat_77:

(Start: 1 @46371 has 27 MA's), (2, 46317), (3, 46257), (4, 46254), (6, 46215), (7, 46134), (8, 46068), (9, 46005), (10, 45993), (11, 45990), (12, 45921), (13, 45777),

Gene: Tarynearal_77 Start: 46169, Stop: 45543, Start Num: 1

Candidate Starts for Tarynearal_77:

(Start: 1 @46169 has 27 MA's), (2, 46115), (3, 46055), (4, 46052), (6, 46013), (7, 45932), (8, 45866), (10, 45791), (11, 45788), (12, 45719), (13, 45575),

Gene: Theia_78 Start: 46652, Stop: 46026, Start Num: 1

Candidate Starts for Theia_78:

(Start: 1 @46652 has 27 MA's), (2, 46598), (3, 46538), (4, 46535), (6, 46496), (7, 46415), (8, 46349), (9, 46286), (10, 46274), (11, 46271), (12, 46202), (13, 46058),

Gene: Tiger_76 Start: 45959, Stop: 45333, Start Num: 1

Candidate Starts for Tiger_76:

(Start: 1 @45959 has 27 MA's), (2, 45905), (3, 45845), (4, 45842), (5, 45815), (6, 45803), (7, 45722), (8, 45656), (9, 45593), (10, 45581), (11, 45578), (12, 45509), (13, 45365),

Gene: Zolita_76 Start: 46354, Stop: 45728, Start Num: 1

Candidate Starts for Zolita_76:

(Start: 1 @46354 has 27 MA's), (2, 46300), (3, 46240), (4, 46237), (6, 46198), (7, 46117), (8, 46051), (9, 45988), (10, 45976), (11, 45973), (12, 45904), (13, 45760),