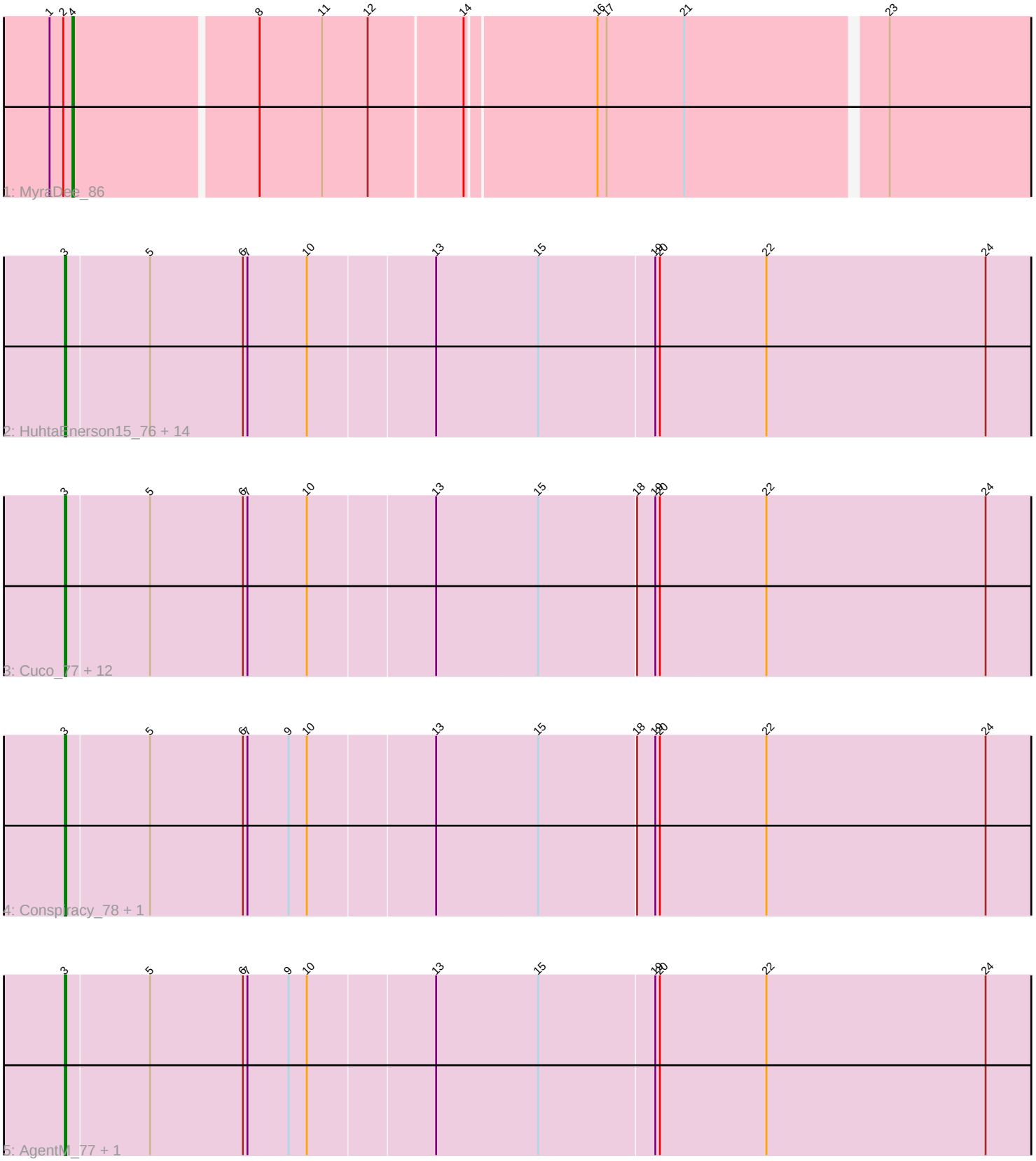
Pham 341110


1
2
4
8
11
12
14
16
17
21
23
1: MyraDee_86
3
5
6
7
10
13
15
19
20
22
24
2: HuhtaEnerson15_76 + 14
3
5
6
7
10
13
15
18
19
20
22
24
3: Cuco_77 + 12
3
5
6
7
9
10
13
15
18
19
20
22
24
4: Conspiracy_78 + 1
3
5
6
7
9
10
13
15
19
20
22
24
5: AgentM_77 + 1

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 341110 Report

This analysis was run 11/14/26 on database version 672.

Pham number 341110 has 33 members, 2 are drafts.

Phages represented in each track:
• Track 1 : MyraDee_86
• Track 2 : HuhtaEnerson15_76, Florence1_75, George_73, Discoknowium_75, PickleBack_78, Lev2_78, Prinashe11_77, ForGetIt_78, Twigg_78, Jovo_77, Bonamassa_78, Aragog_77, LittleCherry_77, Florence4_76, Tarynearal_77
• Track 3 : Cuco_77, Bluefalcon_73, Ghoulboy_77, Dublin_78, Theia_78, Coog_75, SydNat_77, Midas2_75, Swirley_78, MarysWell_78, Micasa_78, Zolita_76, Milcery_77
• Track 4 : Conspiracy_78, Tiger_76
• Track 5 : 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 3, it was called in 30 of the 31 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, Florence1_75, Florence4_76, ForGetIt_78, George_73, Ghoulboy_77, HuhtaEnerson15_76, Jovo_77, Lev2_78, LittleCherry_77, MarysWell_78, Micasa_78, Midas2_75, Milcery_77, Phlorence_76, PickleBack_78, Prinashe11_77, Swirley_78, SydNat_77, Tarynearal_77, Theia_78, Tiger_76, Twigg_78, Zolita_76,

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

Genes that do not have the "Most Annotated" start:
• MyraDee_86,

Summary by start number:

Start 3:
• Found in 32 of 33 (97.0%) of genes in pham
• Manual Annotations of this start: 30 of 31

• 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), Florence1_75 (A5), Florence4_76 (A5), ForGetIt_78 (A5), George_73 (A5), Ghoulboy_77 (A5), HuhtaEnerson15_76 (A5), Jovo_77 (A5), Lev2_78 (A5), LittleCherry_77 (A5), MarysWell_78 (A5), Micasa_78 (A5), Midas2_75 (A5), Milcery_77 (A5), Phlorence_76 (A5), PickleBack_78 (A5), Prinashe11_77 (A5), Swirley_78 (A5), SydNat_77 (A5), Tarynearal_77 (A5), Theia_78 (A5), Tiger_76 (A5), Twigg_78 (A5), Zolita_76 (A5),

Start 4:
• Found in 1 of 33 (3.0%) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MyraDee_86 (A18),

Summary by clusters:

There are 2 clusters represented in this pham: A5, A18,

Info for manual annotations of cluster A18:
•Start number 4 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A5:
•Start number 3 was manually annotated 30 times for cluster A5.

Gene Information:

Gene: AgentM_77 Start: 46138, Stop: 45512, Start Num: 3
Candidate Starts for AgentM_77:
(Start: 3 @46138 has 30 MA's), (5, 46084), (6, 46024), (7, 46021), (9, 45994), (10, 45982), (13, 45901), (15, 45835), (19, 45760), (20, 45757), (22, 45688), (24, 45544),

Gene: Aragog_77 Start: 46156, Stop: 45530, Start Num: 3
Candidate Starts for Aragog_77:
(Start: 3 @46156 has 30 MA's), (5, 46102), (6, 46042), (7, 46039), (10, 46000), (13, 45919), (15, 45853), (19, 45778), (20, 45775), (22, 45706), (24, 45562),

Gene: Bluefalcon_73 Start: 46087, Stop: 45461, Start Num: 3
Candidate Starts for Bluefalcon_73:
(Start: 3 @46087 has 30 MA's), (5, 46033), (6, 45973), (7, 45970), (10, 45931), (13, 45850), (15, 45784), (18, 45721), (19, 45709), (20, 45706), (22, 45637), (24, 45493),

Gene: Bonamassa_78 Start: 46477, Stop: 45851, Start Num: 3
Candidate Starts for Bonamassa_78:
(Start: 3 @46477 has 30 MA's), (5, 46423), (6, 46363), (7, 46360), (10, 46321), (13, 46240), (15, 46174), (19, 46099), (20, 46096), (22, 46027), (24, 45883),

Gene: Conspiracy_78 Start: 46378, Stop: 45752, Start Num: 3
Candidate Starts for Conspiracy_78:

(Start: 3 @46378 has 30 MA's), (5, 46324), (6, 46264), (7, 46261), (9, 46234), (10, 46222), (13, 46141), (15, 46075), (18, 46012), (19, 46000), (20, 45997), (22, 45928), (24, 45784),

Gene: Coog_75 Start: 46289, Stop: 45663, Start Num: 3
Candidate Starts for Coog_75:
(Start: 3 @46289 has 30 MA's), (5, 46235), (6, 46175), (7, 46172), (10, 46133), (13, 46052), (15, 45986), (18, 45923), (19, 45911), (20, 45908), (22, 45839), (24, 45695),

Gene: Cuco_77 Start: 46149, Stop: 45523, Start Num: 3
Candidate Starts for Cuco_77:
(Start: 3 @46149 has 30 MA's), (5, 46095), (6, 46035), (7, 46032), (10, 45993), (13, 45912), (15, 45846), (18, 45783), (19, 45771), (20, 45768), (22, 45699), (24, 45555),

Gene: Discoknowium_75 Start: 45895, Stop: 45269, Start Num: 3
Candidate Starts for Discoknowium_75:
(Start: 3 @45895 has 30 MA's), (5, 45841), (6, 45781), (7, 45778), (10, 45739), (13, 45658), (15, 45592), (19, 45517), (20, 45514), (22, 45445), (24, 45301),

Gene: Dublin_78 Start: 46421, Stop: 45795, Start Num: 3
Candidate Starts for Dublin_78:
(Start: 3 @46421 has 30 MA's), (5, 46367), (6, 46307), (7, 46304), (10, 46265), (13, 46184), (15, 46118), (18, 46055), (19, 46043), (20, 46040), (22, 45971), (24, 45827),

Gene: Florence1_75 Start: 45987, Stop: 45361, Start Num: 3
Candidate Starts for Florence1_75:
(Start: 3 @45987 has 30 MA's), (5, 45933), (6, 45873), (7, 45870), (10, 45831), (13, 45750), (15, 45684), (19, 45609), (20, 45606), (22, 45537), (24, 45393),

Gene: Florence4_76 Start: 45987, Stop: 45361, Start Num: 3
Candidate Starts for Florence4_76:
(Start: 3 @45987 has 30 MA's), (5, 45933), (6, 45873), (7, 45870), (10, 45831), (13, 45750), (15, 45684), (19, 45609), (20, 45606), (22, 45537), (24, 45393),

Gene: ForGetIt_78 Start: 46406, Stop: 45780, Start Num: 3
Candidate Starts for ForGetIt_78:
(Start: 3 @46406 has 30 MA's), (5, 46352), (6, 46292), (7, 46289), (10, 46250), (13, 46169), (15, 46103), (19, 46028), (20, 46025), (22, 45956), (24, 45812),

Gene: George_73 Start: 46648, Stop: 46022, Start Num: 3
Candidate Starts for George_73:
(Start: 3 @46648 has 30 MA's), (5, 46594), (6, 46534), (7, 46531), (10, 46492), (13, 46411), (15, 46345), (19, 46270), (20, 46267), (22, 46198), (24, 46054),

Gene: Ghoulboy_77 Start: 46362, Stop: 45736, Start Num: 3
Candidate Starts for Ghoulboy_77:
(Start: 3 @46362 has 30 MA's), (5, 46308), (6, 46248), (7, 46245), (10, 46206), (13, 46125), (15, 46059), (18, 45996), (19, 45984), (20, 45981), (22, 45912), (24, 45768),

Gene: HuhtaEnerson15_76 Start: 46130, Stop: 45504, Start Num: 3
Candidate Starts for HuhtaEnerson15_76:
(Start: 3 @46130 has 30 MA's), (5, 46076), (6, 46016), (7, 46013), (10, 45974), (13, 45893), (15, 45827), (19, 45752), (20, 45749), (22, 45680), (24, 45536),

Gene: Jovo_77 Start: 46662, Stop: 46036, Start Num: 3
Candidate Starts for Jovo_77:
(Start: 3 @46662 has 30 MA's), (5, 46608), (6, 46548), (7, 46545), (10, 46506), (13, 46425), (15, 46359), (19, 46284), (20, 46281), (22, 46212), (24, 46068),

Gene: Lev2_78 Start: 46294, Stop: 45668, Start Num: 3
Candidate Starts for Lev2_78:
(Start: 3 @46294 has 30 MA's), (5, 46240), (6, 46180), (7, 46177), (10, 46138), (13, 46057), (15, 45991), (19, 45916), (20, 45913), (22, 45844), (24, 45700),

Gene: LittleCherry_77 Start: 46000, Stop: 45374, Start Num: 3
Candidate Starts for LittleCherry_77:
(Start: 3 @46000 has 30 MA's), (5, 45946), (6, 45886), (7, 45883), (10, 45844), (13, 45763), (15, 45697), (19, 45622), (20, 45619), (22, 45550), (24, 45406),

Gene: MarysWell_78 Start: 46664, Stop: 46038, Start Num: 3
Candidate Starts for MarysWell_78:
(Start: 3 @46664 has 30 MA's), (5, 46610), (6, 46550), (7, 46547), (10, 46508), (13, 46427), (15, 46361), (18, 46298), (19, 46286), (20, 46283), (22, 46214), (24, 46070),

Gene: Micasa_78 Start: 46386, Stop: 45760, Start Num: 3
Candidate Starts for Micasa_78:
(Start: 3 @46386 has 30 MA's), (5, 46332), (6, 46272), (7, 46269), (10, 46230), (13, 46149), (15, 46083), (18, 46020), (19, 46008), (20, 46005), (22, 45936), (24, 45792),

Gene: Midas2_75 Start: 46289, Stop: 45663, Start Num: 3
Candidate Starts for Midas2_75:
(Start: 3 @46289 has 30 MA's), (5, 46235), (6, 46175), (7, 46172), (10, 46133), (13, 46052), (15, 45986), (18, 45923), (19, 45911), (20, 45908), (22, 45839), (24, 45695),

Gene: Milcery_77 Start: 46294, Stop: 45668, Start Num: 3
Candidate Starts for Milcery_77:
(Start: 3 @46294 has 30 MA's), (5, 46240), (6, 46180), (7, 46177), (10, 46138), (13, 46057), (15, 45991), (18, 45928), (19, 45916), (20, 45913), (22, 45844), (24, 45700),

Gene: MyraDee_86 Start: 46509, Stop: 45904, Start Num: 4
Candidate Starts for MyraDee_86:
(1, 46524), (2, 46515), (Start: 4 @46509 has 1 MA's), (8, 46392), (11, 46353), (12, 46323), (14, 46263), (16, 46182), (17, 46176), (21, 46125), (23, 45999),

Gene: Phlorence_76 Start: 46038, Stop: 45412, Start Num: 3
Candidate Starts for Phlorence_76:
(Start: 3 @46038 has 30 MA's), (5, 45984), (6, 45924), (7, 45921), (9, 45894), (10, 45882), (13, 45801), (15, 45735), (19, 45660), (20, 45657), (22, 45588), (24, 45444),

Gene: PickleBack_78 Start: 46213, Stop: 45587, Start Num: 3
Candidate Starts for PickleBack_78:
(Start: 3 @46213 has 30 MA's), (5, 46159), (6, 46099), (7, 46096), (10, 46057), (13, 45976), (15, 45910), (19, 45835), (20, 45832), (22, 45763), (24, 45619),

Gene: Prinashe11_77 Start: 46225, Stop: 45599, Start Num: 3
Candidate Starts for Prinashe11_77:

(Start: 3 @46225 has 30 MA's), (5, 46171), (6, 46111), (7, 46108), (10, 46069), (13, 45988), (15, 45922), (19, 45847), (20, 45844), (22, 45775), (24, 45631),

Gene: Swirley_78 Start: 46321, Stop: 45695, Start Num: 3
Candidate Starts for Swirley_78:
(Start: 3 @46321 has 30 MA's), (5, 46267), (6, 46207), (7, 46204), (10, 46165), (13, 46084), (15, 46018), (18, 45955), (19, 45943), (20, 45940), (22, 45871), (24, 45727),

Gene: SydNat_77 Start: 46371, Stop: 45745, Start Num: 3
Candidate Starts for SydNat_77:
(Start: 3 @46371 has 30 MA's), (5, 46317), (6, 46257), (7, 46254), (10, 46215), (13, 46134), (15, 46068), (18, 46005), (19, 45993), (20, 45990), (22, 45921), (24, 45777),

Gene: Tarynearal_77 Start: 46169, Stop: 45543, Start Num: 3
Candidate Starts for Tarynearal_77:
(Start: 3 @46169 has 30 MA's), (5, 46115), (6, 46055), (7, 46052), (10, 46013), (13, 45932), (15, 45866), (19, 45791), (20, 45788), (22, 45719), (24, 45575),

Gene: Theia_78 Start: 46652, Stop: 46026, Start Num: 3
Candidate Starts for Theia_78:
(Start: 3 @46652 has 30 MA's), (5, 46598), (6, 46538), (7, 46535), (10, 46496), (13, 46415), (15, 46349), (18, 46286), (19, 46274), (20, 46271), (22, 46202), (24, 46058),

Gene: Tiger_76 Start: 45959, Stop: 45333, Start Num: 3
Candidate Starts for Tiger_76:
(Start: 3 @45959 has 30 MA's), (5, 45905), (6, 45845), (7, 45842), (9, 45815), (10, 45803), (13, 45722), (15, 45656), (18, 45593), (19, 45581), (20, 45578), (22, 45509), (24, 45365),

Gene: Twigg_78 Start: 46414, Stop: 45788, Start Num: 3
Candidate Starts for Twigg_78:
(Start: 3 @46414 has 30 MA's), (5, 46360), (6, 46300), (7, 46297), (10, 46258), (13, 46177), (15, 46111), (19, 46036), (20, 46033), (22, 45964), (24, 45820),

Gene: Zolita_76 Start: 46354, Stop: 45728, Start Num: 3
Candidate Starts for Zolita_76:
(Start: 3 @46354 has 30 MA's), (5, 46300), (6, 46240), (7, 46237), (10, 46198), (13, 46117), (15, 46051), (18, 45988), (19, 45976), (20, 45973), (22, 45904), (24, 45760),