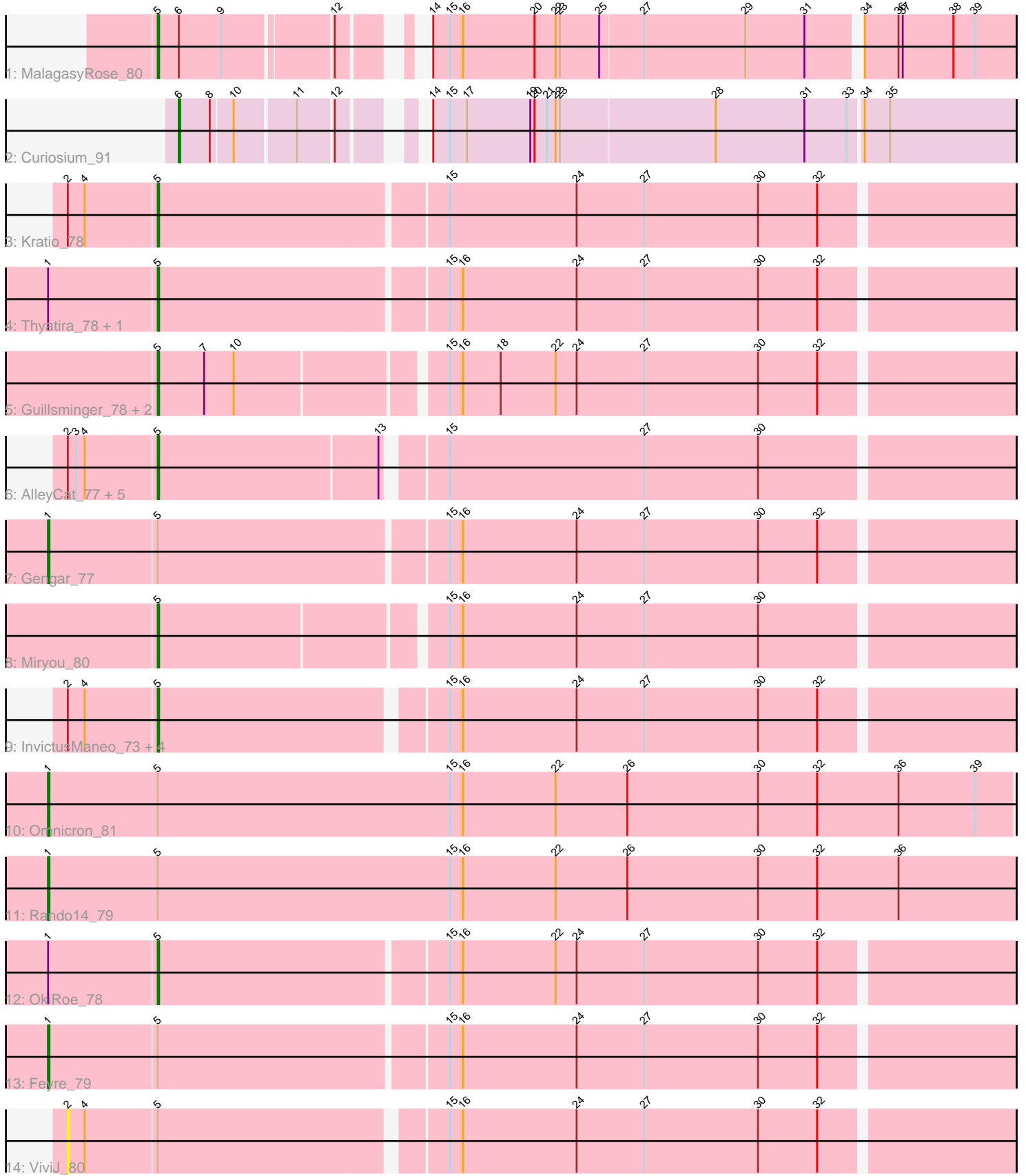


Pham 218223



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 218223 Report

This analysis was run 03/28/25 on database version 593.

Pham number 218223 has 26 members, 2 are drafts.

Phages represented in each track:

- Track 1 : MalagasyRose_80
- Track 2 : Curiosium_91
- Track 3 : Kratio_78
- Track 4 : Thyatira_78, Waterfoul_77
- Track 5 : Guillsminger_78, Leston_77, Paola_77
- Track 6 : AlleyCat_77, Larva_76, Edugator_73, Dadosky_77, Psycho_75, Neighly_77
- Track 7 : Gengar_77
- Track 8 : Miryou_80
- Track 9 : InvictusManeo_73, SoSeph_76, Heftyboy_76, Collard_73, Agent47_75
- Track 10 : Omnicron_81
- Track 11 : Rando14_79
- Track 12 : OkiRoe_78
- Track 13 : Feyre_79
- Track 14 : ViviJ_80

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

The start number called the most often in the published annotations is 5, it was called in 19 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agent47_75, AlleyCat_77, Collard_73, Dadosky_77, Edugator_73, Guillsminger_78, Heftyboy_76, InvictusManeo_73, Kratio_78, Larva_76, Leston_77, MalagasyRose_80, Miryou_80, Neighly_77, OkiRoe_78, Paola_77, Psycho_75, SoSeph_76, Thyatira_78, Waterfoul_77,

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

- Feyre_79, Gengar_77, Omnicron_81, Rando14_79, ViviJ_80,

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

- Curiosium_91,

Summary by start number:

Start 1:

- Found in 7 of 26 (26.9%) of genes in pham
- Manual Annotations of this start: 4 of 24
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Feyre_79 (K5), Gengar_77 (K5), Omnicron_81 (K5), Rando14_79 (K5),

Start 2:

- Found in 13 of 26 (50.0%) of genes in pham
- No Manual Annotations of this start.
- Called 7.7% of time when present
- Phage (with cluster) where this start called: ViviJ_80 (K5),

Start 5:

- Found in 25 of 26 (96.2%) of genes in pham
- Manual Annotations of this start: 19 of 24
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Agent47_75 (K5), AlleyCat_77 (K5), Collard_73 (K5), Dadosky_77 (K5), Edugator_73 (K5), Guillsminger_78 (K5), Heftyboy_76 (K5), InvictusManeo_73 (K5), Kratio_78 (K5), Larva_76 (K5), Leston_77 (K5), MalagasyRose_80 (AG), Miryou_80 (K5), Neighly_77 (K3), OkiRoe_78 (K5), Paola_77 (K5), Psycho_75 (K5), SoSeph_76 (K5), Thyatira_78 (K5), Waterfoul_77 (K5),

Start 6:

- Found in 2 of 26 (7.7%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Curiosium_91 (K1),

Summary by clusters:

There are 4 clusters represented in this pham: K3, K1, AG, K5,

Info for manual annotations of cluster AG:

- Start number 5 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster K1:

- Start number 6 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K5:

- Start number 1 was manually annotated 4 times for cluster K5.
- Start number 5 was manually annotated 18 times for cluster K5.

Gene Information:

Gene: Agent47_75 Start: 49835, Stop: 50419, Start Num: 5

Candidate Starts for Agent47_75:

(2, 49775), (4, 49787), (Start: 5 @49835 has 19 MA's), (15, 50027), (16, 50036), (24, 50117), (27, 50165), (30, 50246), (32, 50288),

Gene: AlleyCat_77 Start: 50302, Stop: 50883, Start Num: 5

Candidate Starts for AlleyCat_77:

(2, 50242), (3, 50248), (4, 50254), (Start: 5 @50302 has 19 MA's), (13, 50455), (15, 50491), (27, 50629), (30, 50710),

Gene: Collard_73 Start: 49796, Stop: 50380, Start Num: 5

Candidate Starts for Collard_73:

(2, 49736), (4, 49748), (Start: 5 @49796 has 19 MA's), (15, 49988), (16, 49997), (24, 50078), (27, 50126), (30, 50207), (32, 50249),

Gene: Curiosium_91 Start: 54305, Stop: 54850, Start Num: 6

Candidate Starts for Curiosium_91:

(Start: 6 @54305 has 1 MA's), (8, 54326), (10, 54341), (11, 54380), (12, 54404), (14, 54443), (15, 54455), (17, 54467), (19, 54512), (20, 54515), (21, 54524), (22, 54530), (23, 54533), (28, 54641), (31, 54704), (33, 54734), (34, 54743), (35, 54761),

Gene: Dadosky_77 Start: 50303, Stop: 50884, Start Num: 5

Candidate Starts for Dadosky_77:

(2, 50243), (3, 50249), (4, 50255), (Start: 5 @50303 has 19 MA's), (13, 50456), (15, 50492), (27, 50630), (30, 50711),

Gene: Edugator_73 Start: 51474, Stop: 52055, Start Num: 5

Candidate Starts for Edugator_73:

(2, 51414), (3, 51420), (4, 51426), (Start: 5 @51474 has 19 MA's), (13, 51627), (15, 51663), (27, 51801), (30, 51882),

Gene: Feyre_79 Start: 54003, Stop: 54668, Start Num: 1

Candidate Starts for Feyre_79:

(Start: 1 @54003 has 4 MA's), (Start: 5 @54078 has 19 MA's), (15, 54276), (16, 54285), (24, 54366), (27, 54414), (30, 54495), (32, 54537),

Gene: Gengar_77 Start: 52228, Stop: 52893, Start Num: 1

Candidate Starts for Gengar_77:

(Start: 1 @52228 has 4 MA's), (Start: 5 @52303 has 19 MA's), (15, 52501), (16, 52510), (24, 52591), (27, 52639), (30, 52720), (32, 52762),

Gene: Guillsminger_78 Start: 52157, Stop: 52741, Start Num: 5

Candidate Starts for Guillsminger_78:

(Start: 5 @52157 has 19 MA's), (7, 52190), (10, 52211), (15, 52349), (16, 52358), (18, 52385), (22, 52424), (24, 52439), (27, 52487), (30, 52568), (32, 52610),

Gene: Heftyboy_76 Start: 52115, Stop: 52699, Start Num: 5

Candidate Starts for Heftyboy_76:

(2, 52055), (4, 52067), (Start: 5 @52115 has 19 MA's), (15, 52307), (16, 52316), (24, 52397), (27, 52445), (30, 52526), (32, 52568),

Gene: InvictusManeo_73 Start: 49839, Stop: 50423, Start Num: 5

Candidate Starts for InvictusManeo_73:

(2, 49779), (4, 49791), (Start: 5 @49839 has 19 MA's), (15, 50031), (16, 50040), (24, 50121), (27, 50169), (30, 50250), (32, 50292),

Gene: Kratio_78 Start: 51397, Stop: 51987, Start Num: 5

Candidate Starts for Kratio_78:

(2, 51337), (4, 51349), (Start: 5 @51397 has 19 MA's), (15, 51595), (24, 51685), (27, 51733), (30, 51814), (32, 51856),

Gene: Larva_76 Start: 51175, Stop: 51756, Start Num: 5

Candidate Starts for Larva_76:

(2, 51115), (3, 51121), (4, 51127), (Start: 5 @51175 has 19 MA's), (13, 51328), (15, 51364), (27, 51502), (30, 51583),

Gene: Leston_77 Start: 52274, Stop: 52858, Start Num: 5

Candidate Starts for Leston_77:

(Start: 5 @52274 has 19 MA's), (7, 52307), (10, 52328), (15, 52466), (16, 52475), (18, 52502), (22, 52541), (24, 52556), (27, 52604), (30, 52685), (32, 52727),

Gene: MalagasyRose_80 Start: 51405, Stop: 51959, Start Num: 5

Candidate Starts for MalagasyRose_80:

(Start: 5 @51405 has 19 MA's), (Start: 6 @51420 has 1 MA's), (9, 51450), (12, 51522), (14, 51558), (15, 51570), (16, 51579), (20, 51630), (22, 51645), (23, 51648), (25, 51675), (27, 51705), (29, 51777), (31, 51819), (34, 51852), (36, 51876), (37, 51879), (38, 51915), (39, 51930),

Gene: Miryou_80 Start: 54723, Stop: 55307, Start Num: 5

Candidate Starts for Miryou_80:

(Start: 5 @54723 has 19 MA's), (15, 54915), (16, 54924), (24, 55005), (27, 55053), (30, 55134),

Gene: Neighly_77 Start: 51174, Stop: 51755, Start Num: 5

Candidate Starts for Neighly_77:

(2, 51114), (3, 51120), (4, 51126), (Start: 5 @51174 has 19 MA's), (13, 51327), (15, 51363), (27, 51501), (30, 51582),

Gene: OkiRoe_78 Start: 52645, Stop: 53235, Start Num: 5

Candidate Starts for OkiRoe_78:

(Start: 1 @52570 has 4 MA's), (Start: 5 @52645 has 19 MA's), (15, 52843), (16, 52852), (22, 52918), (24, 52933), (27, 52981), (30, 53062), (32, 53104),

Gene: Omnicron_81 Start: 53663, Stop: 54343, Start Num: 1

Candidate Starts for Omnicron_81:

(Start: 1 @53663 has 4 MA's), (Start: 5 @53738 has 19 MA's), (15, 53945), (16, 53954), (22, 54020), (26, 54071), (30, 54164), (32, 54206), (36, 54263), (39, 54317),

Gene: Paola_77 Start: 52157, Stop: 52741, Start Num: 5

Candidate Starts for Paola_77:

(Start: 5 @52157 has 19 MA's), (7, 52190), (10, 52211), (15, 52349), (16, 52358), (18, 52385), (22, 52424), (24, 52439), (27, 52487), (30, 52568), (32, 52610),

Gene: Psycho_75 Start: 50300, Stop: 50881, Start Num: 5

Candidate Starts for Psycho_75:

(2, 50240), (3, 50246), (4, 50252), (Start: 5 @50300 has 19 MA's), (13, 50453), (15, 50489), (27, 50627), (30, 50708),

Gene: Rando14_79 Start: 52078, Stop: 52761, Start Num: 1

Candidate Starts for Rando14_79:

(Start: 1 @52078 has 4 MA's), (Start: 5 @52153 has 19 MA's), (15, 52360), (16, 52369), (22, 52435), (26, 52486), (30, 52579), (32, 52621), (36, 52678),

Gene: SoSeph_76 Start: 52115, Stop: 52699, Start Num: 5

Candidate Starts for SoSeph_76:

(2, 52055), (4, 52067), (Start: 5 @52115 has 19 MA's), (15, 52307), (16, 52316), (24, 52397), (27, 52445), (30, 52526), (32, 52568),

Gene: Thyatira_78 Start: 53863, Stop: 54453, Start Num: 5

Candidate Starts for Thyatira_78:

(Start: 1 @53788 has 4 MA's), (Start: 5 @53863 has 19 MA's), (15, 54061), (16, 54070), (24, 54151), (27, 54199), (30, 54280), (32, 54322),

Gene: ViviJ_80 Start: 51824, Stop: 52468, Start Num: 2

Candidate Starts for ViviJ_80:

(2, 51824), (4, 51836), (Start: 5 @51884 has 19 MA's), (15, 52076), (16, 52085), (24, 52166), (27, 52214), (30, 52295), (32, 52337),

Gene: Waterfoul_77 Start: 51933, Stop: 52523, Start Num: 5

Candidate Starts for Waterfoul_77:

(Start: 1 @51858 has 4 MA's), (Start: 5 @51933 has 19 MA's), (15, 52131), (16, 52140), (24, 52221), (27, 52269), (30, 52350), (32, 52392),