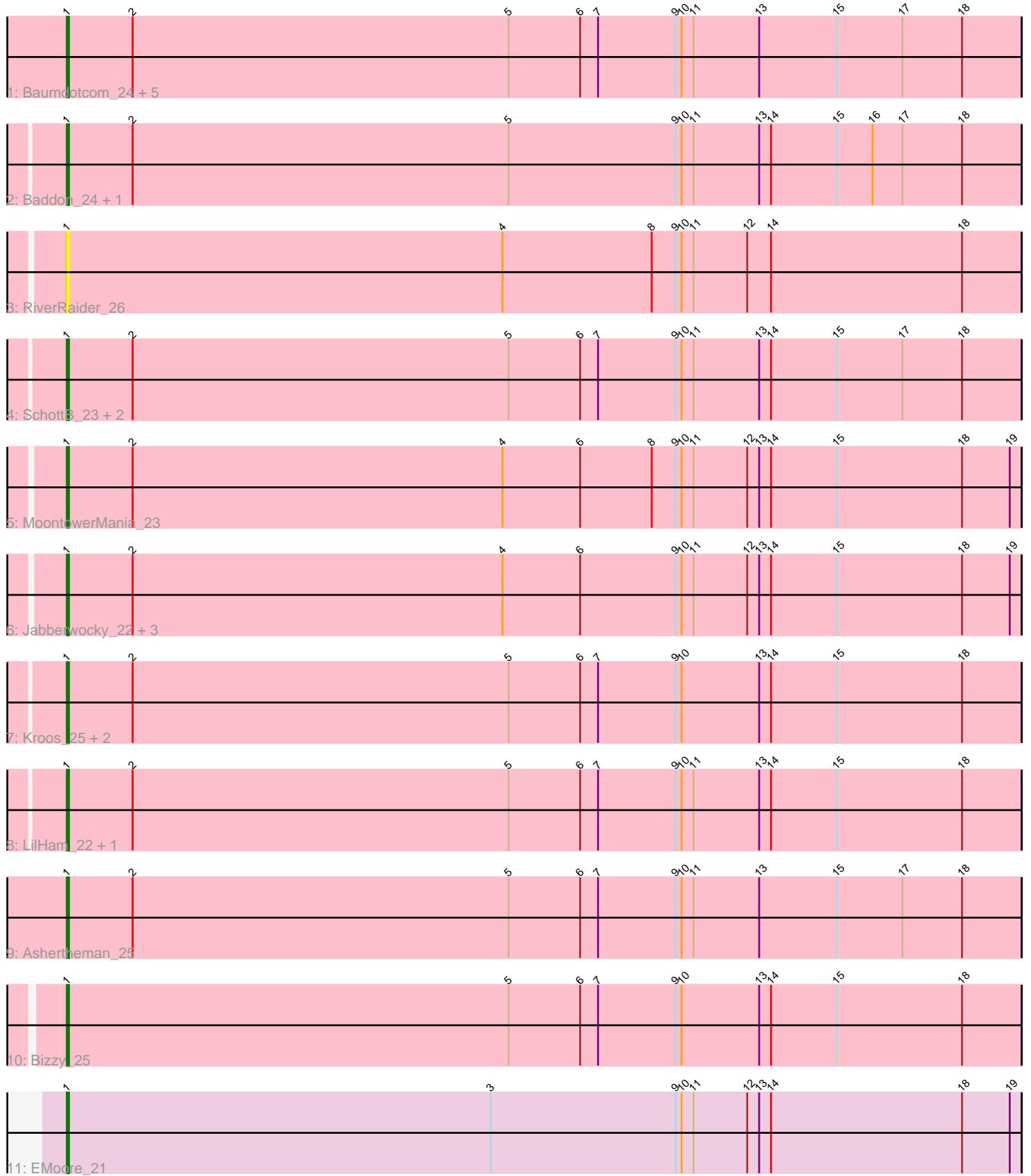


# Pham 4315



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 4315 Report

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

Pham number 4315 has 25 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Baumdotcom\_24, Saronaya\_24, Tangerine\_24, StorminNorm\_24, Kwobi\_25, Gustavo\_24
- Track 2 : Baddon\_24, Ribeye\_25
- Track 3 : RiverRaider\_26
- Track 4 : SchottB\_23, Tycho\_24, Gaea\_24
- Track 5 : MoontowerMania\_23
- Track 6 : Jabberwocky\_22, Sanjuju\_22, Fitzgerald\_22, ChadMasterC\_24
- Track 7 : Kroos\_25, Derg\_22, Flatwoods\_25
- Track 8 : LilHam\_22, YorkOnyx\_25
- Track 9 : Ashertheman\_25
- Track 10 : Bizzy\_25
- Track 11 : EMoore\_21

### ***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 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ashertheman\_25, Baddon\_24, Baumdotcom\_24, Bizzy\_25, ChadMasterC\_24, Derg\_22, EMoore\_21, Fitzgerald\_22, Flatwoods\_25, Gaea\_24, Gustavo\_24, Jabberwocky\_22, Kroos\_25, Kwobi\_25, LilHam\_22, MoontowerMania\_23, Ribeye\_25, RiverRaider\_26, Sanjuju\_22, Saronaya\_24, SchottB\_23, StorminNorm\_24, Tangerine\_24, Tycho\_24, YorkOnyx\_25,

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 25 of 25 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 17 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ashertheman\_25 (DE1), Baddon\_24 (DE1), Baumdotcom\_24 (DE1), Bizzy\_25 (DE1), ChadMasterC\_24 (DE1), Derg\_22 (DE1), EMoore\_21 (DE2), Fitzgerald\_22 (DE1), Flatwoods\_25 (DE1), Gaea\_24 (DE1), Gustavo\_24 (DE1), Jabberwocky\_22 (DE1), Kroos\_25 (DE1), Kwobi\_25 (DE1), LilHam\_22 (DE1), MoontowerMania\_23 (DE1), Ribeye\_25 (DE1), RiverRaider\_26 (DE1), Sanjuju\_22 (DE1), Saronaya\_24 (DE1), SchottB\_23 (DE1), StorminNorm\_24 (DE1), Tangerine\_24 (DE1), Tycho\_24 (DE1), YorkOnyx\_25 (DE1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: DE1, DE2,

Info for manual annotations of cluster DE1:

- Start number 1 was manually annotated 16 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 1 was manually annotated 1 time for cluster DE2.

### **Gene Information:**

Gene: Ashertheman\_25 Start: 19129, Stop: 19608, Start Num: 1

Candidate Starts for Ashertheman\_25:

(Start: 1 @19129 has 17 MA's), (2, 19162), (5, 19351), (6, 19387), (7, 19396), (9, 19435), (10, 19438), (11, 19444), (13, 19477), (15, 19516), (17, 19549), (18, 19579),

Gene: Baddon\_24 Start: 19941, Stop: 20420, Start Num: 1

Candidate Starts for Baddon\_24:

(Start: 1 @19941 has 17 MA's), (2, 19974), (5, 20163), (9, 20247), (10, 20250), (11, 20256), (13, 20289), (14, 20295), (15, 20328), (16, 20346), (17, 20361), (18, 20391),

Gene: Baumdotcom\_24 Start: 18744, Stop: 19223, Start Num: 1

Candidate Starts for Baumdotcom\_24:

(Start: 1 @18744 has 17 MA's), (2, 18777), (5, 18966), (6, 19002), (7, 19011), (9, 19050), (10, 19053), (11, 19059), (13, 19092), (15, 19131), (17, 19164), (18, 19194),

Gene: Bizzy\_25 Start: 19088, Stop: 19567, Start Num: 1

Candidate Starts for Bizzy\_25:

(Start: 1 @19088 has 17 MA's), (5, 19310), (6, 19346), (7, 19355), (9, 19394), (10, 19397), (13, 19436), (14, 19442), (15, 19475), (18, 19538),

Gene: ChadMasterC\_24 Start: 19531, Stop: 20010, Start Num: 1

Candidate Starts for ChadMasterC\_24:

(Start: 1 @19531 has 17 MA's), (2, 19564), (4, 19750), (6, 19789), (9, 19837), (10, 19840), (11, 19846), (12, 19873), (13, 19879), (14, 19885), (15, 19918), (18, 19981), (19, 20005),

Gene: Derg\_22 Start: 18684, Stop: 19163, Start Num: 1

Candidate Starts for Derg\_22:

(Start: 1 @18684 has 17 MA's), (2, 18717), (5, 18906), (6, 18942), (7, 18951), (9, 18990), (10, 18993),  
(13, 19032), (14, 19038), (15, 19071), (18, 19134),

Gene: EMoore\_21 Start: 18508, Stop: 18987, Start Num: 1

Candidate Starts for EMoore\_21:

(Start: 1 @18508 has 17 MA's), (3, 18721), (9, 18814), (10, 18817), (11, 18823), (12, 18850), (13,  
18856), (14, 18862), (18, 18958), (19, 18982),

Gene: Fitzgerald\_22 Start: 18861, Stop: 19340, Start Num: 1

Candidate Starts for Fitzgerald\_22:

(Start: 1 @18861 has 17 MA's), (2, 18894), (4, 19080), (6, 19119), (9, 19167), (10, 19170), (11,  
19176), (12, 19203), (13, 19209), (14, 19215), (15, 19248), (18, 19311), (19, 19335),

Gene: Flatwoods\_25 Start: 19045, Stop: 19524, Start Num: 1

Candidate Starts for Flatwoods\_25:

(Start: 1 @19045 has 17 MA's), (2, 19078), (5, 19267), (6, 19303), (7, 19312), (9, 19351), (10, 19354),  
(13, 19393), (14, 19399), (15, 19432), (18, 19495),

Gene: Gaea\_24 Start: 18696, Stop: 19175, Start Num: 1

Candidate Starts for Gaea\_24:

(Start: 1 @18696 has 17 MA's), (2, 18729), (5, 18918), (6, 18954), (7, 18963), (9, 19002), (10, 19005),  
(11, 19011), (13, 19044), (14, 19050), (15, 19083), (17, 19116), (18, 19146),

Gene: Gustavo\_24 Start: 18836, Stop: 19315, Start Num: 1

Candidate Starts for Gustavo\_24:

(Start: 1 @18836 has 17 MA's), (2, 18869), (5, 19058), (6, 19094), (7, 19103), (9, 19142), (10, 19145),  
(11, 19151), (13, 19184), (15, 19223), (17, 19256), (18, 19286),

Gene: Jabberwocky\_22 Start: 19328, Stop: 19807, Start Num: 1

Candidate Starts for Jabberwocky\_22:

(Start: 1 @19328 has 17 MA's), (2, 19361), (4, 19547), (6, 19586), (9, 19634), (10, 19637), (11,  
19643), (12, 19670), (13, 19676), (14, 19682), (15, 19715), (18, 19778), (19, 19802),

Gene: Kroos\_25 Start: 19589, Stop: 20068, Start Num: 1

Candidate Starts for Kroos\_25:

(Start: 1 @19589 has 17 MA's), (2, 19622), (5, 19811), (6, 19847), (7, 19856), (9, 19895), (10, 19898),  
(13, 19937), (14, 19943), (15, 19976), (18, 20039),

Gene: Kwobi\_25 Start: 19575, Stop: 20054, Start Num: 1

Candidate Starts for Kwobi\_25:

(Start: 1 @19575 has 17 MA's), (2, 19608), (5, 19797), (6, 19833), (7, 19842), (9, 19881), (10, 19884),  
(11, 19890), (13, 19923), (15, 19962), (17, 19995), (18, 20025),

Gene: LilHam\_22 Start: 18169, Stop: 18648, Start Num: 1

Candidate Starts for LilHam\_22:

(Start: 1 @18169 has 17 MA's), (2, 18202), (5, 18391), (6, 18427), (7, 18436), (9, 18475), (10, 18478),  
(11, 18484), (13, 18517), (14, 18523), (15, 18556), (18, 18619),

Gene: MoontowerMania\_23 Start: 18536, Stop: 19015, Start Num: 1

Candidate Starts for MoontowerMania\_23:

(Start: 1 @18536 has 17 MA's), (2, 18569), (4, 18755), (6, 18794), (8, 18830), (9, 18842), (10, 18845),  
(11, 18851), (12, 18878), (13, 18884), (14, 18890), (15, 18923), (18, 18986), (19, 19010),

Gene: Ribeye\_25 Start: 20002, Stop: 20481, Start Num: 1

Candidate Starts for Ribeye\_25:

(Start: 1 @20002 has 17 MA's), (2, 20035), (5, 20224), (9, 20308), (10, 20311), (11, 20317), (13, 20350), (14, 20356), (15, 20389), (16, 20407), (17, 20422), (18, 20452),

Gene: RiverRaider\_26 Start: 18399, Stop: 18878, Start Num: 1

Candidate Starts for RiverRaider\_26:

(Start: 1 @18399 has 17 MA's), (4, 18618), (8, 18693), (9, 18705), (10, 18708), (11, 18714), (12, 18741), (14, 18753), (18, 18849),

Gene: Sanjuju\_22 Start: 18940, Stop: 19419, Start Num: 1

Candidate Starts for Sanjuju\_22:

(Start: 1 @18940 has 17 MA's), (2, 18973), (4, 19159), (6, 19198), (9, 19246), (10, 19249), (11, 19255), (12, 19282), (13, 19288), (14, 19294), (15, 19327), (18, 19390), (19, 19414),

Gene: Saronaya\_24 Start: 18836, Stop: 19315, Start Num: 1

Candidate Starts for Saronaya\_24:

(Start: 1 @18836 has 17 MA's), (2, 18869), (5, 19058), (6, 19094), (7, 19103), (9, 19142), (10, 19145), (11, 19151), (13, 19184), (15, 19223), (17, 19256), (18, 19286),

Gene: SchottB\_23 Start: 19848, Stop: 20327, Start Num: 1

Candidate Starts for SchottB\_23:

(Start: 1 @19848 has 17 MA's), (2, 19881), (5, 20070), (6, 20106), (7, 20115), (9, 20154), (10, 20157), (11, 20163), (13, 20196), (14, 20202), (15, 20235), (17, 20268), (18, 20298),

Gene: StorminNorm\_24 Start: 18715, Stop: 19194, Start Num: 1

Candidate Starts for StorminNorm\_24:

(Start: 1 @18715 has 17 MA's), (2, 18748), (5, 18937), (6, 18973), (7, 18982), (9, 19021), (10, 19024), (11, 19030), (13, 19063), (15, 19102), (17, 19135), (18, 19165),

Gene: Tangerine\_24 Start: 18721, Stop: 19200, Start Num: 1

Candidate Starts for Tangerine\_24:

(Start: 1 @18721 has 17 MA's), (2, 18754), (5, 18943), (6, 18979), (7, 18988), (9, 19027), (10, 19030), (11, 19036), (13, 19069), (15, 19108), (17, 19141), (18, 19171),

Gene: Tycho\_24 Start: 18810, Stop: 19289, Start Num: 1

Candidate Starts for Tycho\_24:

(Start: 1 @18810 has 17 MA's), (2, 18843), (5, 19032), (6, 19068), (7, 19077), (9, 19116), (10, 19119), (11, 19125), (13, 19158), (14, 19164), (15, 19197), (17, 19230), (18, 19260),

Gene: YorkOnyx\_25 Start: 19078, Stop: 19557, Start Num: 1

Candidate Starts for YorkOnyx\_25:

(Start: 1 @19078 has 17 MA's), (2, 19111), (5, 19300), (6, 19336), (7, 19345), (9, 19384), (10, 19387), (11, 19393), (13, 19426), (14, 19432), (15, 19465), (18, 19528),