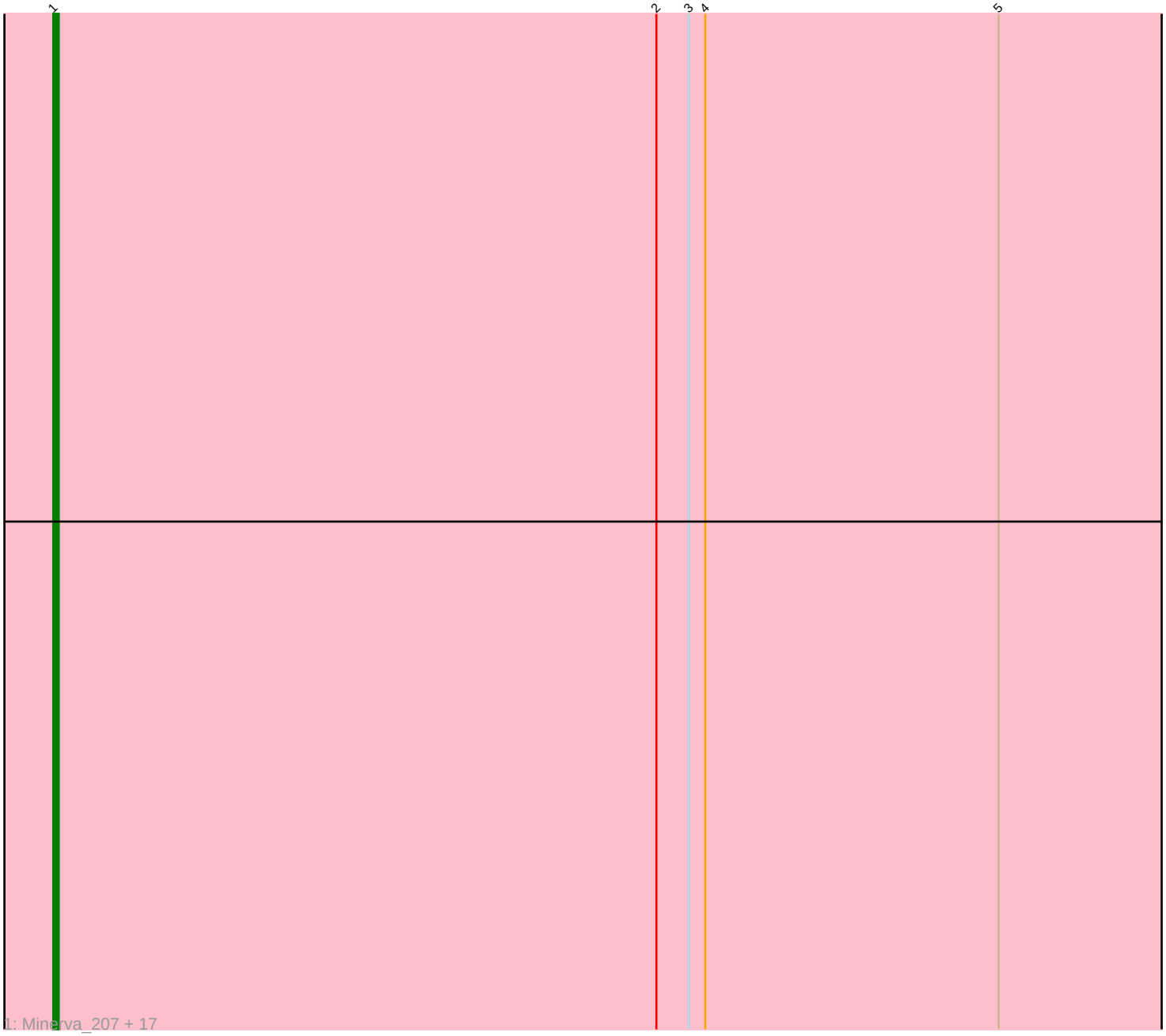
Pham 4326



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 4326 Report

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

Pham number 4326 has 18 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Minerva_207, Hughesyang_205, Dallas_206, Dove_201, Squint_204, Ejimix_196, DmpstrDiver_208, Porcelain_209, Pound_198, MiaZeal_218, Yeet_198, Optimus_202, Duke13_207, Lucky2013_206, BAKA_215, Bagrid_214, EricMillard_204, ThreeRngTarjay_206

***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 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BAKA_215, Bagrid_214, Dallas_206, DmpstrDiver_208, Dove_201, Duke13_207, Ejimix_196, EricMillard_204, Hughesyang_205, Lucky2013_206, MiaZeal_218, Minerva_207, Optimus_202, Porcelain_209, Pound_198, Squint_204, ThreeRngTarjay_206, Yeet_198,

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 18 of 18 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 16 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BAKA_215 (J), Bagrid_214 (J), Dallas_206 (J), DmpstrDiver_208 (J), Dove_201 (J), Duke13_207 (J), Ejimix_196 (J), EricMillard_204 (J), Hughesyang_205 (J), Lucky2013_206 (J), MiaZeal_218 (J), Minerva_207 (J), Optimus_202 (J), Porcelain_209 (J), Pound_198 (J), Squint_204 (J), ThreeRngTarjay_206 (J), Yeet_198 (J),

**Summary by clusters:**

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:
•Start number 1 was manually annotated 16 times for cluster J.

***Gene Information:***

Gene: BAKA_215 Start: 103902, Stop: 103672, Start Num: 1
Candidate Starts for BAKA_215:
(Start: 1 @103902 has 16 MA's), (2, 103791), (3, 103785), (4, 103782), (5, 103728),

Gene: Bagrid_214 Start: 104264, Stop: 104034, Start Num: 1
Candidate Starts for Bagrid_214:
(Start: 1 @104264 has 16 MA's), (2, 104153), (3, 104147), (4, 104144), (5, 104090),

Gene: Dallas_206 Start: 101808, Stop: 101578, Start Num: 1
Candidate Starts for Dallas_206:
(Start: 1 @101808 has 16 MA's), (2, 101697), (3, 101691), (4, 101688), (5, 101634),

Gene: DmpstrDiver_208 Start: 102146, Stop: 101916, Start Num: 1
Candidate Starts for DmpstrDiver_208:
(Start: 1 @102146 has 16 MA's), (2, 102035), (3, 102029), (4, 102026), (5, 101972),

Gene: Dove_201 Start: 98367, Stop: 98137, Start Num: 1
Candidate Starts for Dove_201:
(Start: 1 @98367 has 16 MA's), (2, 98256), (3, 98250), (4, 98247), (5, 98193),

Gene: Duke13_207 Start: 102077, Stop: 101847, Start Num: 1
Candidate Starts for Duke13_207:
(Start: 1 @102077 has 16 MA's), (2, 101966), (3, 101960), (4, 101957), (5, 101903),

Gene: Ejimix_196 Start: 101034, Stop: 100804, Start Num: 1
Candidate Starts for Ejimix_196:
(Start: 1 @101034 has 16 MA's), (2, 100923), (3, 100917), (4, 100914), (5, 100860),

Gene: EricMillard_204 Start: 103156, Stop: 102926, Start Num: 1
Candidate Starts for EricMillard_204:
(Start: 1 @103156 has 16 MA's), (2, 103045), (3, 103039), (4, 103036), (5, 102982),

Gene: Hughesyang_205 Start: 102310, Stop: 102080, Start Num: 1
Candidate Starts for Hughesyang_205:
(Start: 1 @102310 has 16 MA's), (2, 102199), (3, 102193), (4, 102190), (5, 102136),

Gene: Lucky2013_206 Start: 99454, Stop: 99224, Start Num: 1
Candidate Starts for Lucky2013_206:
(Start: 1 @99454 has 16 MA's), (2, 99343), (3, 99337), (4, 99334), (5, 99280),

Gene: MiaZeal_218 Start: 101593, Stop: 101363, Start Num: 1
Candidate Starts for MiaZeal_218:

(Start: 1 @101593 has 16 MA's), (2, 101482), (3, 101476), (4, 101473), (5, 101419),

Gene: Minerva_207 Start: 101307, Stop: 101077, Start Num: 1
Candidate Starts for Minerva_207:
(Start: 1 @101307 has 16 MA's), (2, 101196), (3, 101190), (4, 101187), (5, 101133),

Gene: Optimus_202 Start: 101532, Stop: 101302, Start Num: 1
Candidate Starts for Optimus_202:
(Start: 1 @101532 has 16 MA's), (2, 101421), (3, 101415), (4, 101412), (5, 101358),

Gene: Porcelain_209 Start: 100401, Stop: 100171, Start Num: 1
Candidate Starts for Porcelain_209:
(Start: 1 @100401 has 16 MA's), (2, 100290), (3, 100284), (4, 100281), (5, 100227),

Gene: Pound_198 Start: 100901, Stop: 100671, Start Num: 1
Candidate Starts for Pound_198:
(Start: 1 @100901 has 16 MA's), (2, 100790), (3, 100784), (4, 100781), (5, 100727),

Gene: Squint_204 Start: 99919, Stop: 99689, Start Num: 1
Candidate Starts for Squint_204:
(Start: 1 @99919 has 16 MA's), (2, 99808), (3, 99802), (4, 99799), (5, 99745),

Gene: ThreeRngTarjay_206 Start: 103475, Stop: 103245, Start Num: 1
Candidate Starts for ThreeRngTarjay_206:
(Start: 1 @103475 has 16 MA's), (2, 103364), (3, 103358), (4, 103355), (5, 103301),

Gene: Yeet_198 Start: 100670, Stop: 100440, Start Num: 1
Candidate Starts for Yeet_198:
(Start: 1 @100670 has 16 MA's), (2, 100559), (3, 100553), (4, 100550), (5, 100496),