# Pham 87915



1: Issimin_214 + 3

2: StephanieG_214 + 1
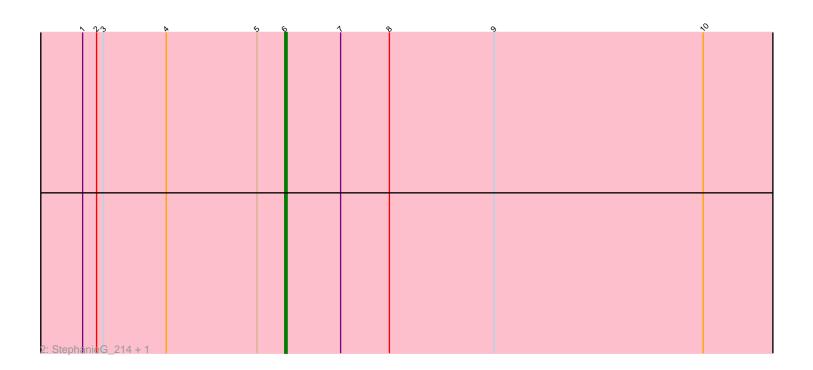
Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 87915 Report

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

Pham number 87915 has 6 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Issimir_214, Naval22_223, Matsumoto_217, Chomp_217
• Track 2 : StephanieG_214, Gamgam_219


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

The start number called the most often in the published annotations is 6, it was called in 2 of the 2 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Gamgam_219, StephanieG_214,

Genes that have the "Most Annotated" start but do not call it:
• Chomp_217, Issimir_214, Matsumoto_217, Naval22_223,

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

**Summary by start number:**

Start 6:
• Found in 6 of 6 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 2 of 2
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Gamgam_219 (C1), StephanieG_214 (C1),

Start 8:
• Found in 6 of 6 ( 100.0% ) of genes in pham
• No Manual Annotations of this start.
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Chomp_217 (C1), Issimir_214 (C1), Matsumoto_217 (C1), Naval22_223 (C1),

**Summary by clusters:**

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:
•Start number 6 was manually annotated 2 times for cluster C1.


### *Gene Information:*

Gene: Chomp_217 Start: 123029, Stop: 123211, Start Num: 8
Candidate Starts for Chomp_217:
(1, 122897), (2, 122903), (3, 122906), (4, 122933), (5, 122972), (Start: 6 @122984 has 2 MA's), (7, 123008), (8, 123029), (9, 123074), (10, 123164),

Gene: Gamgam_219 Start: 121685, Stop: 121912, Start Num: 6
Candidate Starts for Gamgam_219:
(1, 121598), (2, 121604), (3, 121607), (4, 121634), (5, 121673), (Start: 6 @121685 has 2 MA's), (7, 121709), (8, 121730), (9, 121775), (10, 121865),

Gene: Issimir_214 Start: 122042, Stop: 122224, Start Num: 8
Candidate Starts for Issimir_214:
(1, 121910), (2, 121916), (3, 121919), (4, 121946), (5, 121985), (Start: 6 @121997 has 2 MA's), (7, 122021), (8, 122042), (9, 122087), (10, 122177),

Gene: Matsumoto_217 Start: 122182, Stop: 122364, Start Num: 8
Candidate Starts for Matsumoto_217:
(1, 122050), (2, 122056), (3, 122059), (4, 122086), (5, 122125), (Start: 6 @122137 has 2 MA's), (7, 122161), (8, 122182), (9, 122227), (10, 122317),

Gene: Naval22_223 Start: 124220, Stop: 124402, Start Num: 8
Candidate Starts for Naval22_223:
(1, 124088), (2, 124094), (3, 124097), (4, 124124), (5, 124163), (Start: 6 @124175 has 2 MA's), (7, 124199), (8, 124220), (9, 124265), (10, 124355),

Gene: StephanieG_214 Start: 122967, Stop: 123194, Start Num: 6
Candidate Starts for StephanieG_214:
(1, 122880), (2, 122886), (3, 122889), (4, 122916), (5, 122955), (Start: 6 @122967 has 2 MA's), (7, 122991), (8, 123012), (9, 123057), (10, 123147),