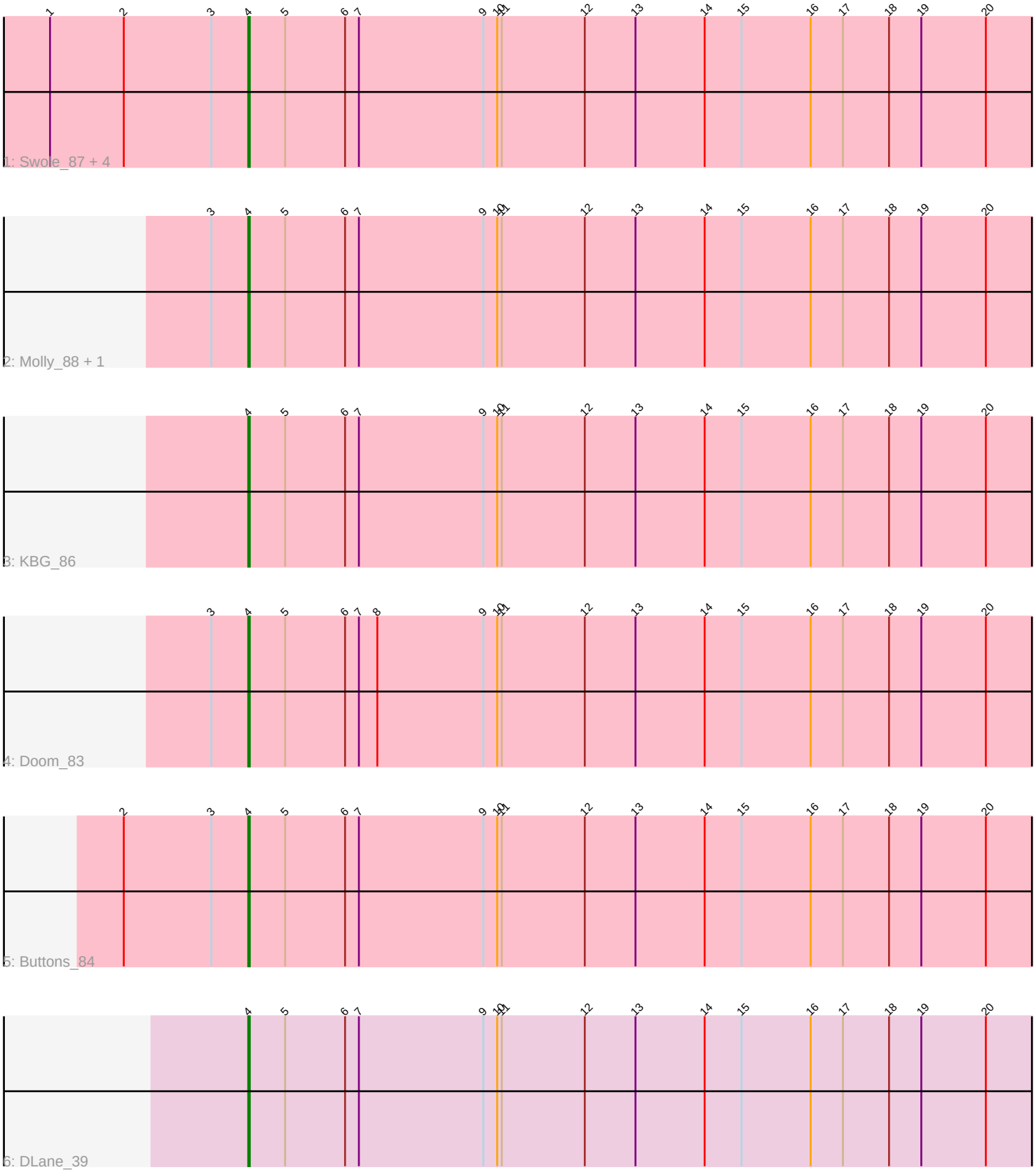
Pham 87498



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 87498 Report

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

Pham number 87498 has 11 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Swole_87, JuliaChild_90, Pita2_90, Tote_85, PSullivan_84
• Track 2 : Molly_88, TwoPeat_84
• Track 3 : KBG_86
• Track 4 : Doom_83
• Track 5 : Buttons_84
• Track 6 : DLane_39

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

The start number called the most often in the published annotations is 4, it was called in 8 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Buttons_84, DLane_39, Doom_83, JuliaChild_90, KBG_86, Molly_88, PSullivan_84, Pita2_90, Swole_87, Tote_85, TwoPeat_84,

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 4:
• Found in 11 of 11 (100.0%) of genes in pham
• Manual Annotations of this start: 8 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Buttons_84 (A1), DLane_39 (F1), Doom_83 (A1), JuliaChild_90 (A1), KBG_86 (A1), Molly_88 (A1), PSullivan_84 (A1), Pita2_90 (A1), Swole_87 (A1), Tote_85 (A1), TwoPeat_84 (A1),

Summary by clusters:

There are 2 clusters represented in this pham: A1, F1,

Info for manual annotations of cluster A1:
•Start number 4 was manually annotated 7 times for cluster A1.

Info for manual annotations of cluster F1:
•Start number 4 was manually annotated 1 time for cluster F1.

Gene Information:

Gene: Buttons_84 Start: 48433, Stop: 47897, Start Num: 4
Candidate Starts for Buttons_84:
(2, 48514), (3, 48457), (Start: 4 @48433 has 8 MA's), (5, 48409), (6, 48370), (7, 48361), (9, 48280), (10, 48271), (11, 48268), (12, 48214), (13, 48181), (14, 48136), (15, 48112), (16, 48067), (17, 48046), (18, 48016), (19, 47995), (20, 47953),

Gene: DLane_39 Start: 31661, Stop: 31113, Start Num: 4
Candidate Starts for DLane_39:
(Start: 4 @31661 has 8 MA's), (5, 31637), (6, 31598), (7, 31589), (9, 31508), (10, 31499), (11, 31496), (12, 31442), (13, 31409), (14, 31364), (15, 31340), (16, 31295), (17, 31274), (18, 31244), (19, 31223), (20, 31181),

Gene: Doom_83 Start: 50422, Stop: 49886, Start Num: 4
Candidate Starts for Doom_83:
(3, 50446), (Start: 4 @50422 has 8 MA's), (5, 50398), (6, 50359), (7, 50350), (8, 50338), (9, 50269), (10, 50260), (11, 50257), (12, 50203), (13, 50170), (14, 50125), (15, 50101), (16, 50056), (17, 50035), (18, 50005), (19, 49984), (20, 49942),

Gene: JuliaChild_90 Start: 51235, Stop: 50699, Start Num: 4
Candidate Starts for JuliaChild_90:
(1, 51364), (2, 51316), (3, 51259), (Start: 4 @51235 has 8 MA's), (5, 51211), (6, 51172), (7, 51163), (9, 51082), (10, 51073), (11, 51070), (12, 51016), (13, 50983), (14, 50938), (15, 50914), (16, 50869), (17, 50848), (18, 50818), (19, 50797), (20, 50755),

Gene: KBG_86 Start: 51993, Stop: 51457, Start Num: 4
Candidate Starts for KBG_86:
(Start: 4 @51993 has 8 MA's), (5, 51969), (6, 51930), (7, 51921), (9, 51840), (10, 51831), (11, 51828), (12, 51774), (13, 51741), (14, 51696), (15, 51672), (16, 51627), (17, 51606), (18, 51576), (19, 51555), (20, 51513),

Gene: Molly_88 Start: 49478, Stop: 48942, Start Num: 4
Candidate Starts for Molly_88:
(3, 49502), (Start: 4 @49478 has 8 MA's), (5, 49454), (6, 49415), (7, 49406), (9, 49325), (10, 49316), (11, 49313), (12, 49259), (13, 49226), (14, 49181), (15, 49157), (16, 49112), (17, 49091), (18, 49061), (19, 49040), (20, 48998),

Gene: PSullivan_84 Start: 48995, Stop: 48459, Start Num: 4
Candidate Starts for PSullivan_84:
(1, 49124), (2, 49076), (3, 49019), (Start: 4 @48995 has 8 MA's), (5, 48971), (6, 48932), (7, 48923), (9, 48842), (10, 48833), (11, 48830), (12, 48776), (13, 48743), (14, 48698), (15, 48674), (16, 48629), (17, 48608), (18, 48578), (19, 48557), (20, 48515),

Gene: Pita2_90 Start: 50491, Stop: 49955, Start Num: 4
Candidate Starts for Pita2_90:
(1, 50620), (2, 50572), (3, 50515), (Start: 4 @50491 has 8 MA's), (5, 50467), (6, 50428), (7, 50419), (9, 50338), (10, 50329), (11, 50326), (12, 50272), (13, 50239), (14, 50194), (15, 50170), (16, 50125), (17, 50104), (18, 50074), (19, 50053), (20, 50011),

Gene: Swole_87 Start: 50709, Stop: 50173, Start Num: 4
Candidate Starts for Swole_87:
(1, 50838), (2, 50790), (3, 50733), (Start: 4 @50709 has 8 MA's), (5, 50685), (6, 50646), (7, 50637), (9, 50556), (10, 50547), (11, 50544), (12, 50490), (13, 50457), (14, 50412), (15, 50388), (16, 50343), (17, 50322), (18, 50292), (19, 50271), (20, 50229),

Gene: Tote_85 Start: 47977, Stop: 47441, Start Num: 4
Candidate Starts for Tote_85:
(1, 48106), (2, 48058), (3, 48001), (Start: 4 @47977 has 8 MA's), (5, 47953), (6, 47914), (7, 47905), (9, 47824), (10, 47815), (11, 47812), (12, 47758), (13, 47725), (14, 47680), (15, 47656), (16, 47611), (17, 47590), (18, 47560), (19, 47539), (20, 47497),

Gene: TwoPeat_84 Start: 50171, Stop: 49635, Start Num: 4
Candidate Starts for TwoPeat_84:
(3, 50195), (Start: 4 @50171 has 8 MA's), (5, 50147), (6, 50108), (7, 50099), (9, 50018), (10, 50009), (11, 50006), (12, 49952), (13, 49919), (14, 49874), (15, 49850), (16, 49805), (17, 49784), (18, 49754), (19, 49733), (20, 49691),