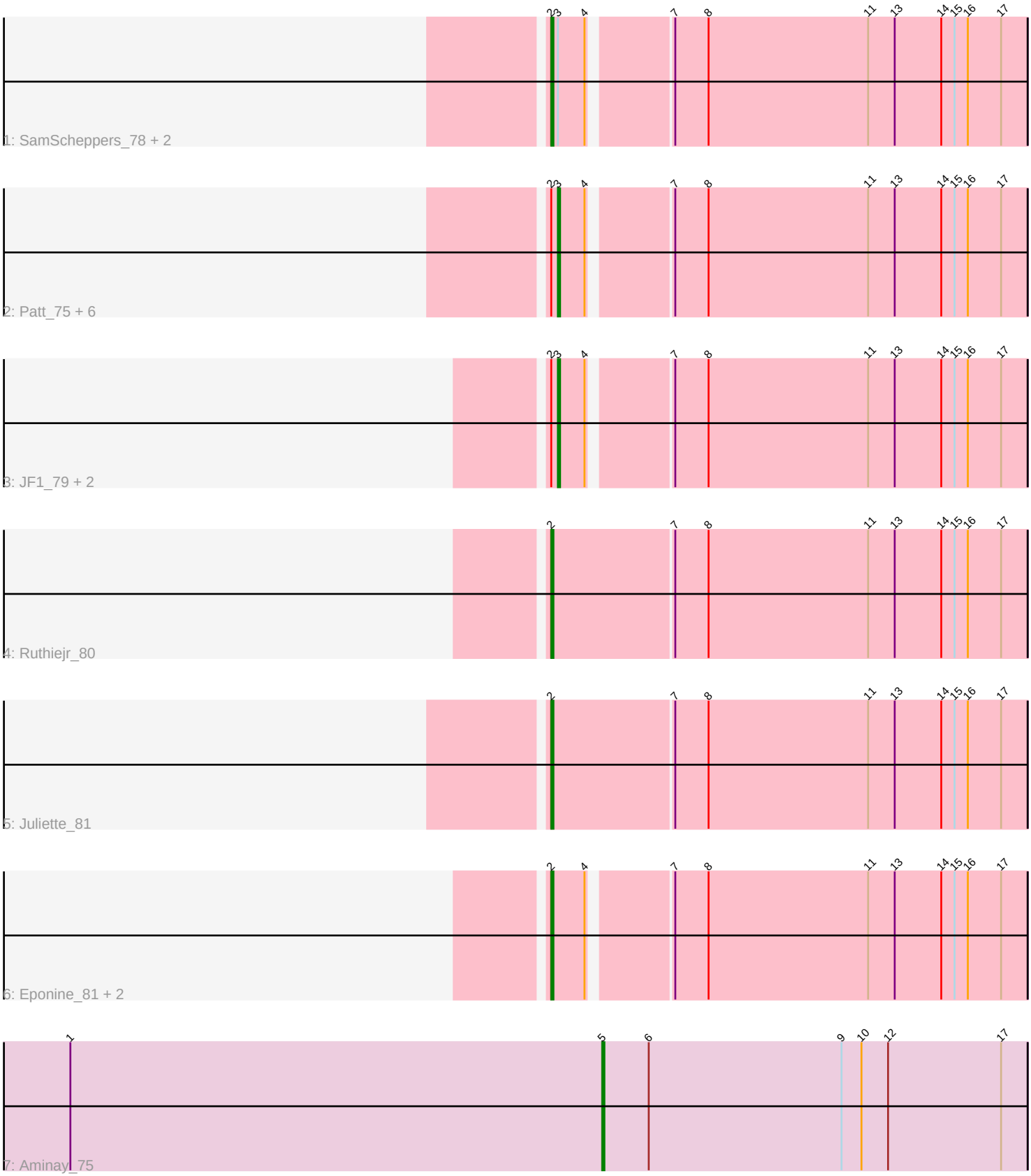
Pham 86758


1: SamScheppers_78 + 2
2: Patt_75 + 6
3: JF1_79 + 2
4: Ruthiejr_80
5: Juliette_81
6: Eponine_81 + 2
7: Aminay_75

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 86758 Report

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

Pham number 86758 has 19 members, 0 are drafts.

Phages represented in each track:
• Track 1 : SamScheppers_78, Cheetobro_79, Reptar3000_76
• Track 2 : Patt_75, Malthus_80, Taquito_78, OmniCritical_79, Mitti_79, Slarp_79, Chancellor_79
• Track 3 : JF1_79, Y10_76, Y2_76
• Track 4 : Ruthiejr_80
• Track 5 : Juliette_81
• Track 6 : Eponine_81, Wintermute_79, Fionnbharth_79
• Track 7 : Aminay_75

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

The start number called the most often in the published annotations is 3, it was called in 10 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Chancellor_79, JF1_79, Malthus_80, Mitti_79, OmniCritical_79, Patt_75, Slarp_79, Taquito_78, Y10_76, Y2_76,

Genes that have the "Most Annotated" start but do not call it:
• Cheetobro_79, Reptar3000_76, SamScheppers_78,

Genes that do not have the "Most Annotated" start:
• Aminay_75, Eponine_81, Fionnbharth_79, Juliette_81, Ruthiejr_80, Wintermute_79,

Summary by start number:

Start 2:
• Found in 18 of 19 (94.7%) of genes in pham
• Manual Annotations of this start: 8 of 19
• Called 44.4% of time when present
• Phage (with cluster) where this start called: Cheetobro_79 (K4), Eponine_81 (K4), Fionnbharth_79 (K4), Juliette_81 (K4), Reptar3000_76 (K4), Ruthiejr_80 (K4), SamScheppers_78 (K4), Wintermute_79 (K4),

Start 3:
• Found in 13 of 19 (68.4%) of genes in pham
• Manual Annotations of this start: 10 of 19
• Called 76.9% of time when present
• Phage (with cluster) where this start called: Chancellor_79 (K4), JF1_79 (K4), Malthus_80 (K4), Mitti_79 (K4), OmniCritical_79 (K4), Patt_75 (K4), Slarp_79 (K4), Taquito_78 (K4), Y10_76 (K4), Y2_76 (K4),

Start 5:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aminay_75 (K7),

Summary by clusters:

There are 2 clusters represented in this pham: K7, K4,

Info for manual annotations of cluster K4:
•Start number 2 was manually annotated 8 times for cluster K4.
•Start number 3 was manually annotated 10 times for cluster K4.

Info for manual annotations of cluster K7:
•Start number 5 was manually annotated 1 time for cluster K7.

Gene Information:

Gene: Aminay_75 Start: 48935, Stop: 49126, Start Num: 5
Candidate Starts for Aminay_75:
(1, 48695), (Start: 5 @48935 has 1 MA's), (6, 48956), (9, 49043), (10, 49052), (12, 49064), (17, 49115),

Gene: Chancellor_79 Start: 50342, Stop: 50545, Start Num: 3
Candidate Starts for Chancellor_79:
(Start: 2 @50339 has 8 MA's), (Start: 3 @50342 has 10 MA's), (4, 50354), (7, 50387), (8, 50402), (11, 50474), (13, 50486), (14, 50507), (15, 50513), (16, 50519), (17, 50534),

Gene: Cheetobro_79 Start: 50507, Stop: 50713, Start Num: 2
Candidate Starts for Cheetobro_79:
(Start: 2 @50507 has 8 MA's), (Start: 3 @50510 has 10 MA's), (4, 50522), (7, 50555), (8, 50570), (11, 50642), (13, 50654), (14, 50675), (15, 50681), (16, 50687), (17, 50702),

Gene: Eponine_81 Start: 51333, Stop: 51539, Start Num: 2
Candidate Starts for Eponine_81:
(Start: 2 @51333 has 8 MA's), (4, 51348), (7, 51381), (8, 51396), (11, 51468), (13, 51480), (14, 51501), (15, 51507), (16, 51513), (17, 51528),

Gene: Fionnbharth_79 Start: 50731, Stop: 50937, Start Num: 2
Candidate Starts for Fionnbharth_79:
(Start: 2 @50731 has 8 MA's), (4, 50746), (7, 50779), (8, 50794), (11, 50866), (13, 50878), (14, 50899), (15, 50905), (16, 50911), (17, 50926),

Gene: JF1_79 Start: 50651, Stop: 50854, Start Num: 3
Candidate Starts for JF1_79:
(Start: 2 @50648 has 8 MA's), (Start: 3 @50651 has 10 MA's), (4, 50663), (7, 50696), (8, 50711), (11, 50783), (13, 50795), (14, 50816), (15, 50822), (16, 50828), (17, 50843),

Gene: Juliette_81 Start: 50752, Stop: 50964, Start Num: 2
Candidate Starts for Juliette_81:
(Start: 2 @50752 has 8 MA's), (7, 50806), (8, 50821), (11, 50893), (13, 50905), (14, 50926), (15, 50932), (16, 50938), (17, 50953),

Gene: Malthus_80 Start: 50458, Stop: 50661, Start Num: 3
Candidate Starts for Malthus_80:
(Start: 2 @50455 has 8 MA's), (Start: 3 @50458 has 10 MA's), (4, 50470), (7, 50503), (8, 50518), (11, 50590), (13, 50602), (14, 50623), (15, 50629), (16, 50635), (17, 50650),

Gene: Mitti_79 Start: 50649, Stop: 50852, Start Num: 3
Candidate Starts for Mitti_79:
(Start: 2 @50646 has 8 MA's), (Start: 3 @50649 has 10 MA's), (4, 50661), (7, 50694), (8, 50709), (11, 50781), (13, 50793), (14, 50814), (15, 50820), (16, 50826), (17, 50841),

Gene: OmniCritical_79 Start: 50651, Stop: 50854, Start Num: 3
Candidate Starts for OmniCritical_79:
(Start: 2 @50648 has 8 MA's), (Start: 3 @50651 has 10 MA's), (4, 50663), (7, 50696), (8, 50711), (11, 50783), (13, 50795), (14, 50816), (15, 50822), (16, 50828), (17, 50843),

Gene: Patt_75 Start: 48610, Stop: 48813, Start Num: 3
Candidate Starts for Patt_75:
(Start: 2 @48607 has 8 MA's), (Start: 3 @48610 has 10 MA's), (4, 48622), (7, 48655), (8, 48670), (11, 48742), (13, 48754), (14, 48775), (15, 48781), (16, 48787), (17, 48802),

Gene: Reptar3000_76 Start: 48596, Stop: 48802, Start Num: 2
Candidate Starts for Reptar3000_76:
(Start: 2 @48596 has 8 MA's), (Start: 3 @48599 has 10 MA's), (4, 48611), (7, 48644), (8, 48659), (11, 48731), (13, 48743), (14, 48764), (15, 48770), (16, 48776), (17, 48791),

Gene: Ruthiejr_80 Start: 50536, Stop: 50748, Start Num: 2
Candidate Starts for Ruthiejr_80:
(Start: 2 @50536 has 8 MA's), (7, 50590), (8, 50605), (11, 50677), (13, 50689), (14, 50710), (15, 50716), (16, 50722), (17, 50737),

Gene: SamScheppers_78 Start: 50811, Stop: 51017, Start Num: 2
Candidate Starts for SamScheppers_78:
(Start: 2 @50811 has 8 MA's), (Start: 3 @50814 has 10 MA's), (4, 50826), (7, 50859), (8, 50874), (11, 50946), (13, 50958), (14, 50979), (15, 50985), (16, 50991), (17, 51006),

Gene: Slarp_79 Start: 50513, Stop: 50716, Start Num: 3
Candidate Starts for Slarp_79:
(Start: 2 @50510 has 8 MA's), (Start: 3 @50513 has 10 MA's), (4, 50525), (7, 50558), (8, 50573), (11, 50645), (13, 50657), (14, 50678), (15, 50684), (16, 50690), (17, 50705),

Gene: Taquito_78 Start: 50547, Stop: 50750, Start Num: 3
Candidate Starts for Taquito_78:

(Start: 2 @50544 has 8 MA's), (Start: 3 @50547 has 10 MA's), (4, 50559), (7, 50592), (8, 50607), (11, 50679), (13, 50691), (14, 50712), (15, 50718), (16, 50724), (17, 50739),

Gene: Wintermute_79 Start: 50720, Stop: 50926, Start Num: 2
Candidate Starts for Wintermute_79:
(Start: 2 @50720 has 8 MA's), (4, 50735), (7, 50768), (8, 50783), (11, 50855), (13, 50867), (14, 50888), (15, 50894), (16, 50900), (17, 50915),

Gene: Y10_76 Start: 50651, Stop: 50854, Start Num: 3
Candidate Starts for Y10_76:
(Start: 2 @50648 has 8 MA's), (Start: 3 @50651 has 10 MA's), (4, 50663), (7, 50696), (8, 50711), (11, 50783), (13, 50795), (14, 50816), (15, 50822), (16, 50828), (17, 50843),

Gene: Y2_76 Start: 50651, Stop: 50854, Start Num: 3
Candidate Starts for Y2_76:
(Start: 2 @50648 has 8 MA's), (Start: 3 @50651 has 10 MA's), (4, 50663), (7, 50696), (8, 50711), (11, 50783), (13, 50795), (14, 50816), (15, 50822), (16, 50828), (17, 50843),