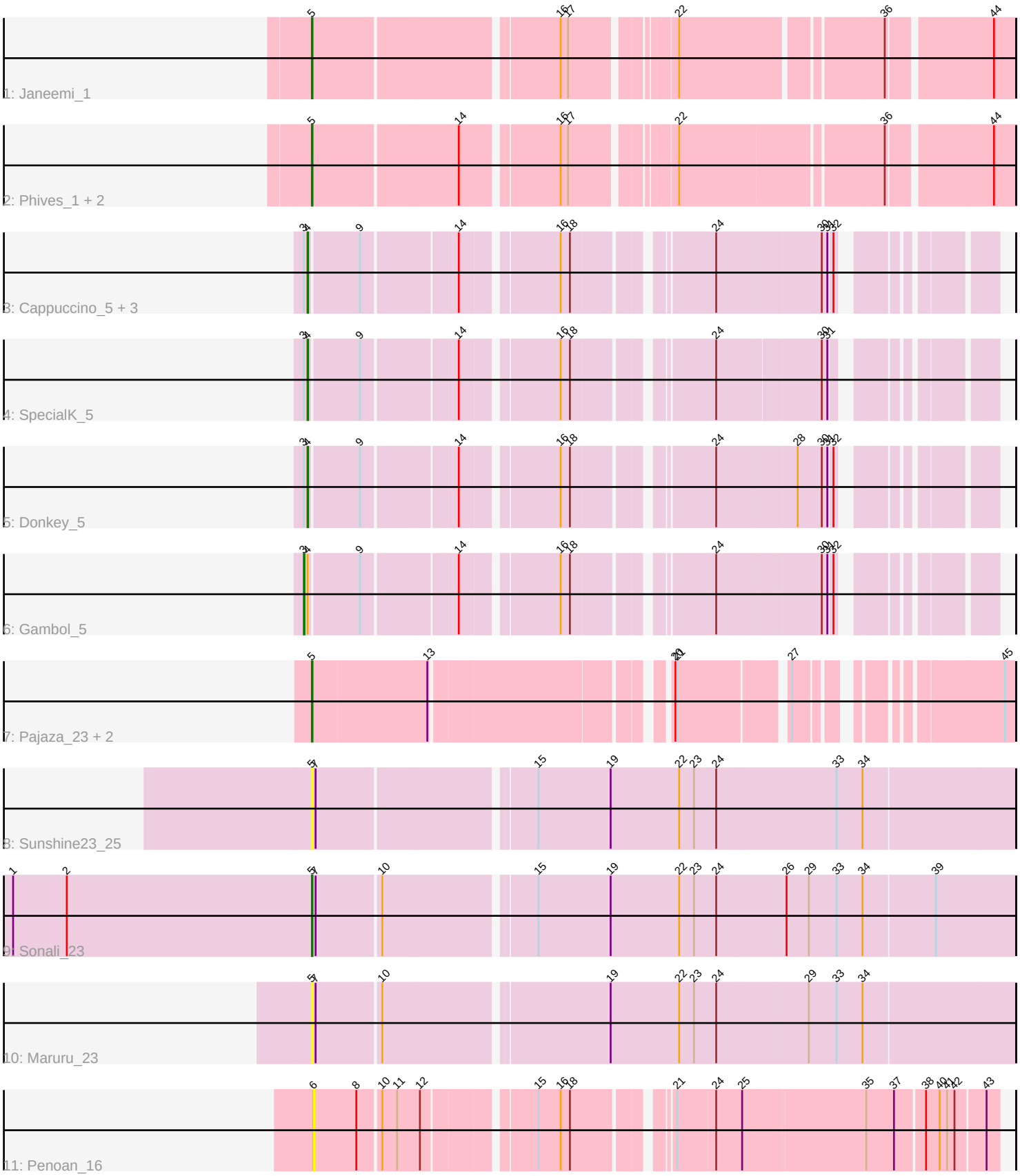
Pham 224930


1: Janeemi_1
2: Phives_1 + 2
3: Cappuccino_5 + 3
4: SpecialK_5
5: Donkey_5
6: Gambol_5
7: Pajaza_23 + 2
8: Sunshine23_25
9: Sonali_23
10: Maruru_23
11: Penoan_16

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 224930 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224930 has 18 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Janeemi_1
• Track 2 : Phives_1, Community_1, Tuck_1
• Track 3 : Cappuccino_5, Sabourin_5, Kalimba_5, Sooty_5
• Track 4 : SpecialK_5
• Track 5 : Donkey_5
• Track 6 : Gambol_5
• Track 7 : Pajaza_23, Casey_23, Pikmin_23
• Track 8 : Sunshine23_25
• Track 9 : Sonali_23
• Track 10 : Maruru_23
• Track 11 : Penoan_16

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

The start number called the most often in the published annotations is 5, it was called in 7 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Casey_23, Community_1, Janeemi_1, Maruru_23, Pajaza_23, Phives_1, Pikmin_23, Sonali_23, Sunshine23_25, Tuck_1,

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

Genes that do not have the "Most Annotated" start:
• Cappuccino_5, Donkey_5, Gambol_5, Kalimba_5, Penoan_16, Sabourin_5, Sooty_5, SpecialK_5,

Summary by start number:

Start 3:
• Found in 7 of 18 (38.9%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 14.3% of time when present

• Phage (with cluster) where this start called: Gambol_5 (AZ5),

Start 4:
• Found in 7 of 18 (38.9%) of genes in pham
• Manual Annotations of this start: 5 of 13
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Cappuccino_5 (AZ5), Donkey_5 (AZ5), Kalimba_5 (AZ5), Sabourin_5 (AZ5), Sooty_5 (AZ5), SpecialK_5 (AZ5),

Start 5:
• Found in 10 of 18 (55.6%) of genes in pham
• Manual Annotations of this start: 7 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Casey_23 (EA3), Community_1 (AZ1), Janeemi_1 (AZ1), Maruru_23 (FG), Pajaza_23 (EA3), Phives_1 (AZ1), Pikmin_23 (EA3), Sonali_23 (FG), Sunshine23_25 (FG), Tuck_1 (AZ1),

Start 6:
• Found in 1 of 18 (5.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Penoan_16 (UNK),

Summary by clusters:

There are 5 clusters represented in this pham: AZ1, EA3, UNK, AZ5, FG,

Info for manual annotations of cluster AZ1:
•Start number 5 was manually annotated 3 times for cluster AZ1.

Info for manual annotations of cluster AZ5:
•Start number 3 was manually annotated 1 time for cluster AZ5.
•Start number 4 was manually annotated 5 times for cluster AZ5.

Info for manual annotations of cluster EA3:
•Start number 5 was manually annotated 3 times for cluster EA3.

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

Gene Information:

Gene: Cappuccino_5 Start: 4691, Stop: 5623, Start Num: 4
Candidate Starts for Cappuccino_5:
(Start: 3 @4685 has 1 MA's), (Start: 4 @4691 has 5 MA's), (9, 4769), (14, 4907), (16, 5048), (18, 5063), (24, 5255), (30, 5420), (31, 5429), (32, 5435),

Gene: Casey_23 Start: 18626, Stop: 19585, Start Num: 5
Candidate Starts for Casey_23:
(Start: 5 @18626 has 7 MA's), (13, 18809), (20, 19145), (21, 19148), (27, 19310), (45, 19571),

Gene: Community_1 Start: 108, Stop: 1130, Start Num: 5
Candidate Starts for Community_1:
(Start: 5 @108 has 7 MA's), (14, 336), (16, 477), (17, 489), (22, 633), (36, 939), (44, 1095),

Gene: Donkey_5 Start: 4691, Stop: 5623, Start Num: 4
Candidate Starts for Donkey_5:
(Start: 3 @4685 has 1 MA's), (Start: 4 @4691 has 5 MA's), (9, 4769), (14, 4907), (16, 5048), (18, 5063), (24, 5255), (28, 5381), (30, 5420), (31, 5429), (32, 5435),

Gene: Gambol_5 Start: 4685, Stop: 5623, Start Num: 3
Candidate Starts for Gambol_5:
(Start: 3 @4685 has 1 MA's), (Start: 4 @4691 has 5 MA's), (9, 4769), (14, 4907), (16, 5048), (18, 5063), (24, 5255), (30, 5420), (31, 5429), (32, 5435),

Gene: Janeemi_1 Start: 108, Stop: 1124, Start Num: 5
Candidate Starts for Janeemi_1:
(Start: 5 @108 has 7 MA's), (16, 477), (17, 489), (22, 633), (36, 933), (44, 1089),

Gene: Kalimba_5 Start: 4691, Stop: 5623, Start Num: 4
Candidate Starts for Kalimba_5:
(Start: 3 @4685 has 1 MA's), (Start: 4 @4691 has 5 MA's), (9, 4769), (14, 4907), (16, 5048), (18, 5063), (24, 5255), (30, 5420), (31, 5429), (32, 5435),

Gene: Maruru_23 Start: 22366, Stop: 23457, Start Num: 5
Candidate Starts for Maruru_23:
(Start: 5 @22366 has 7 MA's), (7, 22372), (10, 22471), (19, 22816), (22, 22927), (23, 22951), (24, 22987), (29, 23131), (33, 23176), (34, 23218),

Gene: Pajaza_23 Start: 18626, Stop: 19585, Start Num: 5
Candidate Starts for Pajaza_23:
(Start: 5 @18626 has 7 MA's), (13, 18809), (20, 19145), (21, 19148), (27, 19310), (45, 19571),

Gene: Penoan_16 Start: 11184, Stop: 12179, Start Num: 6
Candidate Starts for Penoan_16:
(6, 11184), (8, 11253), (10, 11286), (11, 11310), (12, 11346), (15, 11505), (16, 11541), (18, 11556), (21, 11688), (24, 11748), (25, 11790), (35, 11979), (37, 12024), (38, 12069), (40, 12090), (41, 12102), (42, 12114), (43, 12159),

Gene: Phives_1 Start: 108, Stop: 1130, Start Num: 5
Candidate Starts for Phives_1:
(Start: 5 @108 has 7 MA's), (14, 336), (16, 477), (17, 489), (22, 633), (36, 939), (44, 1095),

Gene: Pikmin_23 Start: 18626, Stop: 19585, Start Num: 5
Candidate Starts for Pikmin_23:
(Start: 5 @18626 has 7 MA's), (13, 18809), (20, 19145), (21, 19148), (27, 19310), (45, 19571),

Gene: Sabourin_5 Start: 4691, Stop: 5623, Start Num: 4
Candidate Starts for Sabourin_5:
(Start: 3 @4685 has 1 MA's), (Start: 4 @4691 has 5 MA's), (9, 4769), (14, 4907), (16, 5048), (18, 5063), (24, 5255), (30, 5420), (31, 5429), (32, 5435),

Gene: Sonali_23 Start: 22915, Stop: 24006, Start Num: 5

Candidate Starts for Sonali_23:
(1, 22432), (2, 22519), (Start: 5 @22915 has 7 MA's), (7, 22921), (10, 23020), (15, 23248), (19, 23365), (22, 23476), (23, 23500), (24, 23536), (26, 23644), (29, 23680), (33, 23725), (34, 23767), (39, 23881),

Gene: Sooty_5 Start: 4691, Stop: 5623, Start Num: 4
Candidate Starts for Sooty_5:
(Start: 3 @4685 has 1 MA's), (Start: 4 @4691 has 5 MA's), (9, 4769), (14, 4907), (16, 5048), (18, 5063), (24, 5255), (30, 5420), (31, 5429), (32, 5435),

Gene: SpecialK_5 Start: 4695, Stop: 5621, Start Num: 4
Candidate Starts for SpecialK_5:
(Start: 3 @4689 has 1 MA's), (Start: 4 @4695 has 5 MA's), (9, 4773), (14, 4911), (16, 5052), (18, 5067), (24, 5259), (30, 5418), (31, 5427),

Gene: Sunshine23_25 Start: 22928, Stop: 24022, Start Num: 5
Candidate Starts for Sunshine23_25:
(Start: 5 @22928 has 7 MA's), (7, 22934), (15, 23261), (19, 23378), (22, 23489), (23, 23513), (24, 23549), (33, 23741), (34, 23783),

Gene: Tuck_1 Start: 108, Stop: 1118, Start Num: 5
Candidate Starts for Tuck_1:
(Start: 5 @108 has 7 MA's), (14, 336), (16, 477), (17, 489), (22, 633), (36, 927), (44, 1083),