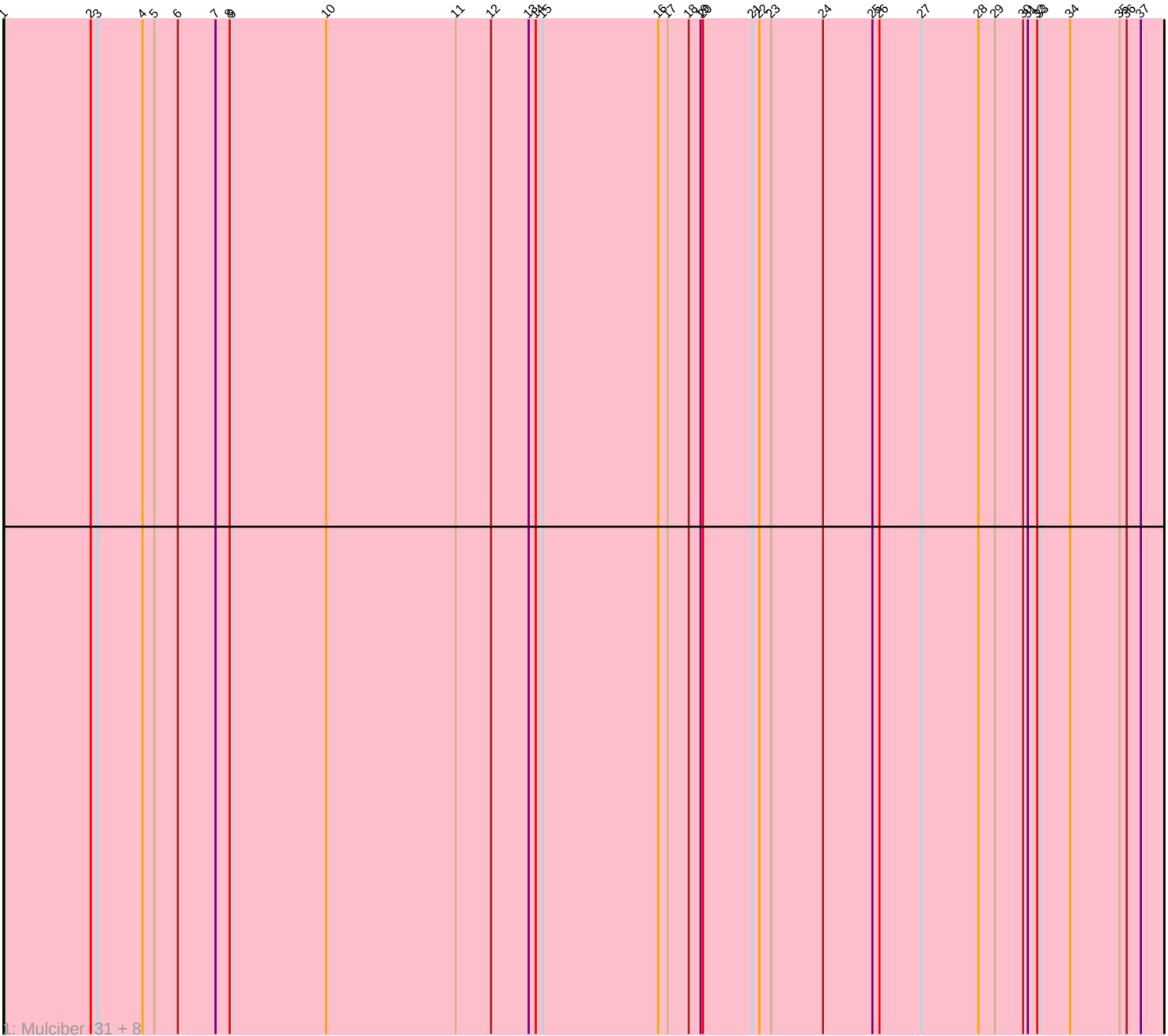




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 320012 Report

This analysis was run 09/05/26 on database version 662.

Pham number 320012 has 9 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Mulciber_31, Sham4_31, Hutc2_31, Wolpertinger_30, Petersenfast_31, Snape_31, Fibonacci_31, Bud_31, Orange_31

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 8 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bud_31, Fibonacci_31, Hutc2_31, Mulciber_31, Orange_31, Petersenfast_31, Sham4_31, Snape_31, Wolpertinger_30,

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 9 of 9 (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: Bud_31 (A11), Fibonacci_31 (A11), Hutc2_31 (A11), Mulciber_31 (A11), Orange_31 (A11), Petersenfast_31 (A11), Sham4_31 (A11), Snape_31 (A11), Wolpertinger_30 (A11),

Summary by clusters:

There is one cluster represented in this pham: A11

Info for manual annotations of cluster A11:

- Start number 1 was manually annotated 8 times for cluster A11.

Gene Information:

Gene: Bud_31 Start: 23403, Stop: 25040, Start Num: 1

Candidate Starts for Bud_31:

(Start: 1 @23403 has 8 MA's), (2, 23514), (3, 23523), (4, 23580), (5, 23595), (6, 23625), (7, 23673), (8, 23691), (9, 23694), (10, 23814), (11, 23979), (12, 24024), (13, 24072), (14, 24081), (15, 24090), (16, 24237), (17, 24249), (18, 24276), (19, 24291), (20, 24294), (21, 24357), (22, 24366), (23, 24381), (24, 24447), (25, 24510), (26, 24519), (27, 24573), (28, 24645), (29, 24666), (30, 24702), (31, 24708), (32, 24720), (33, 24723), (34, 24762), (35, 24825), (36, 24834), (37, 24852),

Gene: Fibonacci_31 Start: 23394, Stop: 25031, Start Num: 1

Candidate Starts for Fibonacci_31:

(Start: 1 @23394 has 8 MA's), (2, 23505), (3, 23514), (4, 23571), (5, 23586), (6, 23616), (7, 23664), (8, 23682), (9, 23685), (10, 23805), (11, 23970), (12, 24015), (13, 24063), (14, 24072), (15, 24081), (16, 24228), (17, 24240), (18, 24267), (19, 24282), (20, 24285), (21, 24348), (22, 24357), (23, 24372), (24, 24438), (25, 24501), (26, 24510), (27, 24564), (28, 24636), (29, 24657), (30, 24693), (31, 24699), (32, 24711), (33, 24714), (34, 24753), (35, 24816), (36, 24825), (37, 24843),

Gene: Hutc2_31 Start: 23394, Stop: 25031, Start Num: 1

Candidate Starts for Hutc2_31:

(Start: 1 @23394 has 8 MA's), (2, 23505), (3, 23514), (4, 23571), (5, 23586), (6, 23616), (7, 23664), (8, 23682), (9, 23685), (10, 23805), (11, 23970), (12, 24015), (13, 24063), (14, 24072), (15, 24081), (16, 24228), (17, 24240), (18, 24267), (19, 24282), (20, 24285), (21, 24348), (22, 24357), (23, 24372), (24, 24438), (25, 24501), (26, 24510), (27, 24564), (28, 24636), (29, 24657), (30, 24693), (31, 24699), (32, 24711), (33, 24714), (34, 24753), (35, 24816), (36, 24825), (37, 24843),

Gene: Mulciber_31 Start: 23391, Stop: 25028, Start Num: 1

Candidate Starts for Mulciber_31:

(Start: 1 @23391 has 8 MA's), (2, 23502), (3, 23511), (4, 23568), (5, 23583), (6, 23613), (7, 23661), (8, 23679), (9, 23682), (10, 23802), (11, 23967), (12, 24012), (13, 24060), (14, 24069), (15, 24078), (16, 24225), (17, 24237), (18, 24264), (19, 24279), (20, 24282), (21, 24345), (22, 24354), (23, 24369), (24, 24435), (25, 24498), (26, 24507), (27, 24561), (28, 24633), (29, 24654), (30, 24690), (31, 24696), (32, 24708), (33, 24711), (34, 24750), (35, 24813), (36, 24822), (37, 24840),

Gene: Orange_31 Start: 23397, Stop: 25034, Start Num: 1

Candidate Starts for Orange_31:

(Start: 1 @23397 has 8 MA's), (2, 23508), (3, 23517), (4, 23574), (5, 23589), (6, 23619), (7, 23667), (8, 23685), (9, 23688), (10, 23808), (11, 23973), (12, 24018), (13, 24066), (14, 24075), (15, 24084), (16, 24231), (17, 24243), (18, 24270), (19, 24285), (20, 24288), (21, 24351), (22, 24360), (23, 24375), (24, 24441), (25, 24504), (26, 24513), (27, 24567), (28, 24639), (29, 24660), (30, 24696), (31, 24702), (32, 24714), (33, 24717), (34, 24756), (35, 24819), (36, 24828), (37, 24846),

Gene: Petersenfast_31 Start: 23394, Stop: 25031, Start Num: 1

Candidate Starts for Petersenfast_31:

(Start: 1 @23394 has 8 MA's), (2, 23505), (3, 23514), (4, 23571), (5, 23586), (6, 23616), (7, 23664), (8, 23682), (9, 23685), (10, 23805), (11, 23970), (12, 24015), (13, 24063), (14, 24072), (15, 24081), (16, 24228), (17, 24240), (18, 24267), (19, 24282), (20, 24285), (21, 24348), (22, 24357), (23, 24372), (24, 24438), (25, 24501), (26, 24510), (27, 24564), (28, 24636), (29, 24657), (30, 24693), (31, 24699), (32, 24711), (33, 24714), (34, 24753), (35, 24816), (36, 24825), (37, 24843),

Gene: Sham4_31 Start: 23394, Stop: 25031, Start Num: 1

Candidate Starts for Sham4_31:

(Start: 1 @23394 has 8 MA's), (2, 23505), (3, 23514), (4, 23571), (5, 23586), (6, 23616), (7, 23664), (8, 23682), (9, 23685), (10, 23805), (11, 23970), (12, 24015), (13, 24063), (14, 24072), (15, 24081), (16, 24228), (17, 24240), (18, 24267), (19, 24282), (20, 24285), (21, 24348), (22, 24357), (23, 24372), (24, 24438), (25, 24501), (26, 24510), (27, 24564), (28, 24636), (29, 24657), (30, 24693), (31, 24699), (32, 24711), (33, 24714), (34, 24753), (35, 24816), (36, 24825), (37, 24843),

Gene: Snape_31 Start: 23394, Stop: 25031, Start Num: 1

Candidate Starts for Snape_31:

(Start: 1 @23394 has 8 MA's), (2, 23505), (3, 23514), (4, 23571), (5, 23586), (6, 23616), (7, 23664), (8, 23682), (9, 23685), (10, 23805), (11, 23970), (12, 24015), (13, 24063), (14, 24072), (15, 24081), (16, 24228), (17, 24240), (18, 24267), (19, 24282), (20, 24285), (21, 24348), (22, 24357), (23, 24372), (24, 24438), (25, 24501), (26, 24510), (27, 24564), (28, 24636), (29, 24657), (30, 24693), (31, 24699), (32, 24711), (33, 24714), (34, 24753), (35, 24816), (36, 24825), (37, 24843),

Gene: Wolpertinger_30 Start: 23394, Stop: 25031, Start Num: 1

Candidate Starts for Wolpertinger_30:

(Start: 1 @23394 has 8 MA's), (2, 23505), (3, 23514), (4, 23571), (5, 23586), (6, 23616), (7, 23664), (8, 23682), (9, 23685), (10, 23805), (11, 23970), (12, 24015), (13, 24063), (14, 24072), (15, 24081), (16, 24228), (17, 24240), (18, 24267), (19, 24282), (20, 24285), (21, 24348), (22, 24357), (23, 24372), (24, 24438), (25, 24501), (26, 24510), (27, 24564), (28, 24636), (29, 24657), (30, 24693), (31, 24699), (32, 24711), (33, 24714), (34, 24753), (35, 24816), (36, 24825), (37, 24843),