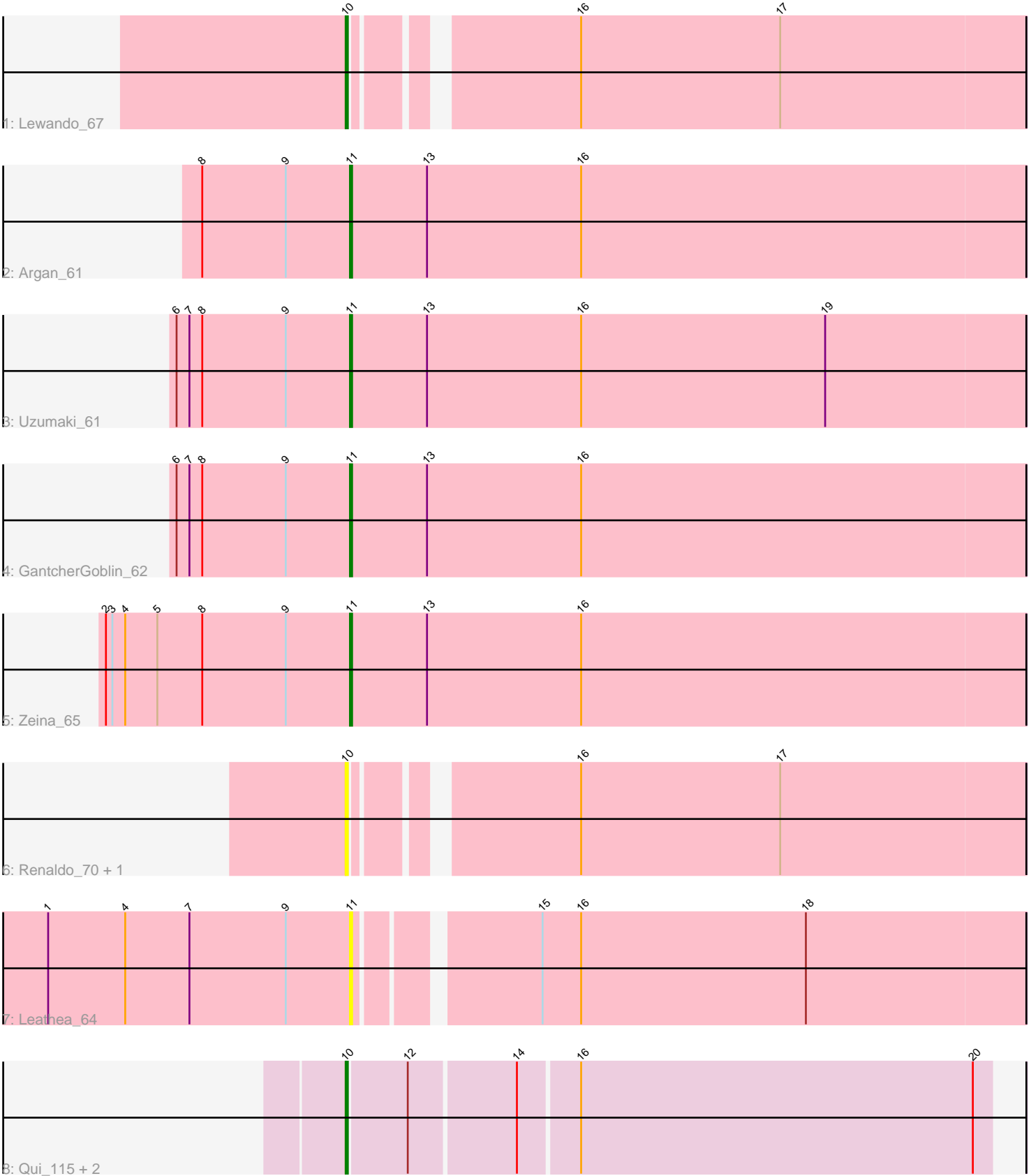# Pham 101661

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 101661 Report

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

Pham number 101661 has 11 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Lewando_67
• Track 2 : Argan_61
• Track 3 : Uzumaki_61
• Track 4 : GantcherGoblin_62
• Track 5 : Zeina_65
• Track 6 : Renaldo_70, BarbieDoll_68
• Track 7 : Leathea_64
• Track 8 : Qui_115, Paella_115, Elver_114


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

The start number called the most often in the published annotations is 11, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Argan_61, GantcherGoblin_62, Leathea_64, Uzumaki_61, Zeina_65,

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

Genes that do not have the "Most Annotated" start:
• BarbieDoll_68, Elver_114, Lewando_67, Paella_115, Qui_115, Renaldo_70,

**Summary by start number:**

Start 10:
• Found in 6 of 11 ( 54.5% ) of genes in pham
• Manual Annotations of this start: 3 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BarbieDoll_68 (AU6), Elver_114 (FK), Lewando_67 (AU6), Paella_115 (FK), Qui_115 (FK), Renaldo_70 (AU6),

Start 11:
• Found in 5 of 11 ( 45.5% ) of genes in pham

• Manual Annotations of this start: 4 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Argan_61 (AU6), GantcherGoblin_62 (AU6), Leathea_64 (AU6), Uzumaki_61 (AU6), Zeina_65 (AU6),

**Summary by clusters:**

There are 2 clusters represented in this pham: FK, AU6,

Info for manual annotations of cluster AU6:
•Start number 10 was manually annotated 1 time for cluster AU6.
•Start number 11 was manually annotated 4 times for cluster AU6.

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


*Gene Information:*
Gene: Argan_61 Start: 41594, Stop: 41908, Start Num: 11
Candidate Starts for Argan_61:
(8, 41525), (9, 41564), (Start: 11 @41594 has 4 MA's), (13, 41630), (16, 41702),

Gene: BarbieDoll_68 Start: 43319, Stop: 43615, Start Num: 10
Candidate Starts for BarbieDoll_68:
(Start: 10 @43319 has 3 MA's), (16, 43409), (17, 43502),

Gene: Elver_114 Start: 64462, Stop: 64755, Start Num: 10
Candidate Starts for Elver_114:
(Start: 10 @64462 has 3 MA's), (12, 64489), (14, 64537), (16, 64564), (20, 64747),

Gene: GantcherGoblin_62 Start: 41674, Stop: 41988, Start Num: 11
Candidate Starts for GantcherGoblin_62:
(6, 41593), (7, 41599), (8, 41605), (9, 41644), (Start: 11 @41674 has 4 MA's), (13, 41710), (16, 41782),

Gene: Leathea_64 Start: 41428, Stop: 41727, Start Num: 11
Candidate Starts for Leathea_64:
(1, 41287), (4, 41323), (7, 41353), (9, 41398), (Start: 11 @41428 has 4 MA's), (15, 41503), (16, 41521), (18, 41626),

Gene: Lewando_67 Start: 43391, Stop: 43687, Start Num: 10
Candidate Starts for Lewando_67:
(Start: 10 @43391 has 3 MA's), (16, 43481), (17, 43574),

Gene: Paella_115 Start: 65052, Stop: 65345, Start Num: 10
Candidate Starts for Paella_115:
(Start: 10 @65052 has 3 MA's), (12, 65079), (14, 65127), (16, 65154), (20, 65337),

Gene: Qui_115 Start: 65052, Stop: 65345, Start Num: 10
Candidate Starts for Qui_115:
(Start: 10 @65052 has 3 MA's), (12, 65079), (14, 65127), (16, 65154), (20, 65337),

Gene: Renaldo_70 Start: 43615, Stop: 43911, Start Num: 10
Candidate Starts for Renaldo_70:
(Start: 10 @43615 has 3 MA's), (16, 43705), (17, 43798),

Gene: Uzumaki_61 Start: 41775, Stop: 42089, Start Num: 11
Candidate Starts for Uzumaki_61:
(6, 41694), (7, 41700), (8, 41706), (9, 41745), (Start: 11 @41775 has 4 MA's), (13, 41811), (16, 41883), (19, 41997),

Gene: Zeina_65 Start: 42357, Stop: 42671, Start Num: 11
Candidate Starts for Zeina_65:
(2, 42243), (3, 42246), (4, 42252), (5, 42267), (8, 42288), (9, 42327), (Start: 11 @42357 has 4 MA's), (13, 42393), (16, 42465),