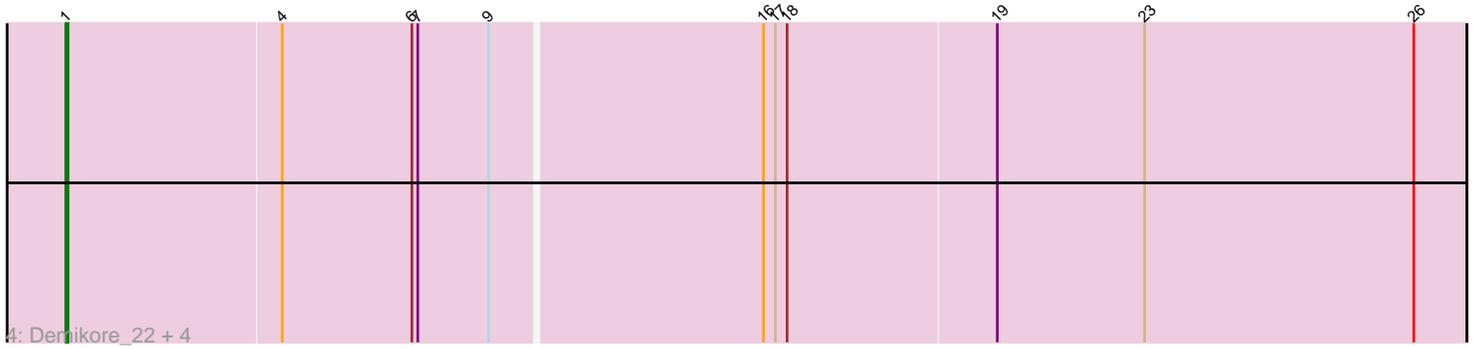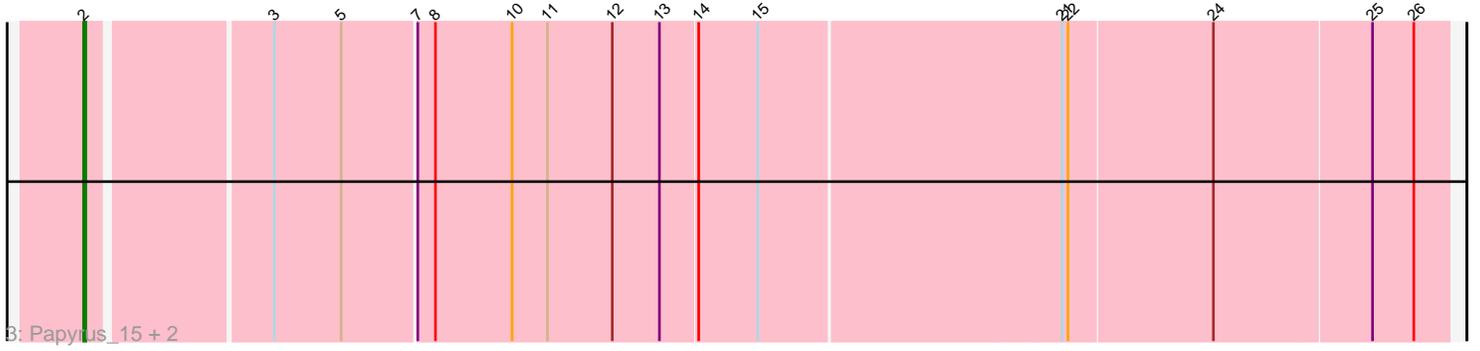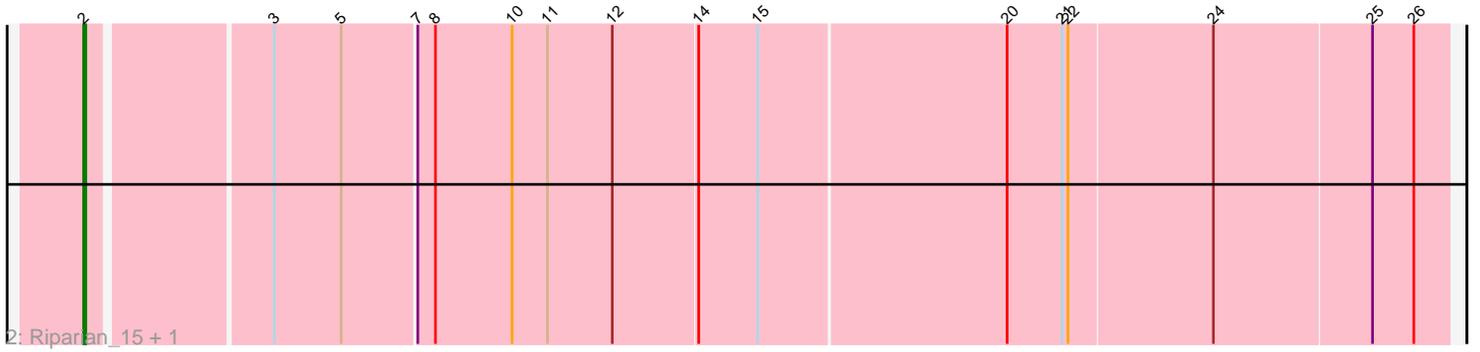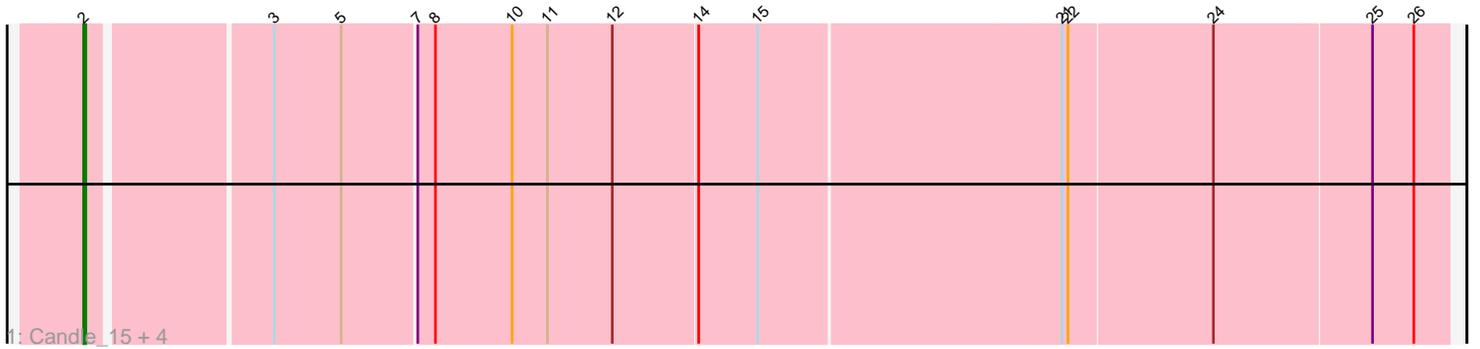# Pham 284296

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 284296 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284296 has 15 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Candle_15, Nilo_16, MontyDev_15, Zenon_16, Send513_15
• Track 2 : Riparian_15, Yelo_15
• Track 3 : Papyrus_15, Weiss13_15, Rope_15
• Track 4 : Demikore_22, Labelle_21, Patience_22, SuperSonics_21, Madruga_20

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

The start number called the most often in the published annotations is 2, it was called in 9 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Candle_15, MontyDev_15, Nilo_16, Papyrus_15, Riparian_15, Rope_15, Send513_15, Weiss13_15, Yelo_15, Zenon_16,

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

Genes that do not have the "Most Annotated" start:
• Demikore_22, Labelle_21, Madruga_20, Patience_22, SuperSonics_21,

Summary by start number:

Start 1:
• Found in 5 of 15 (33.3%) of genes in pham
• Manual Annotations of this start: 3 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Demikore_22 (U), Labelle_21 (U), Madruga_20 (U), Patience_22 (U), SuperSonics_21 (U),

Start 2:
• Found in 10 of 15 (66.7%) of genes in pham
• Manual Annotations of this start: 9 of 12
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Candle_15 (R), MontyDev_15 (R), Nilo_16 (R), Papyrus_15 (R), Riparian_15 (R), Rope_15 (R), Send513_15 (R), Weiss13_15 (R), Yelo_15 (R), Zenon_16 (R),

Summary by clusters:

There are 2 clusters represented in this pham: R, U,

Info for manual annotations of cluster R:
•Start number 2 was manually annotated 9 times for cluster R.

Info for manual annotations of cluster U:
•Start number 1 was manually annotated 3 times for cluster U.

Gene Information:
Gene: Candle_15 Start: 10499, Stop: 11167, Start Num: 2
Candidate Starts for Candle_15:
(Start: 2 @10499 has 9 MA's), (3, 10586), (5, 10619), (7, 10655), (8, 10664), (10, 10703), (11, 10721), (12, 10754), (14, 10796), (15, 10826), (21, 10976), (22, 10979), (24, 11051), (25, 11129), (26, 11150),

Gene: Demikore_22 Start: 12751, Stop: 13449, Start Num: 1
Candidate Starts for Demikore_22:
(Start: 1 @12751 has 3 MA's), (4, 12859), (6, 12925), (7, 12928), (9, 12964), (16, 13096), (17, 13102), (18, 13108), (19, 13213), (23, 13288), (26, 13423),

Gene: Labelle_21 Start: 12753, Stop: 13451, Start Num: 1
Candidate Starts for Labelle_21:
(Start: 1 @12753 has 3 MA's), (4, 12861), (6, 12927), (7, 12930), (9, 12966), (16, 13098), (17, 13104), (18, 13110), (19, 13215), (23, 13290), (26, 13425),

Gene: Madruga_20 Start: 12421, Stop: 13119, Start Num: 1
Candidate Starts for Madruga_20:
(Start: 1 @12421 has 3 MA's), (4, 12529), (6, 12595), (7, 12598), (9, 12634), (16, 12766), (17, 12772), (18, 12778), (19, 12883), (23, 12958), (26, 13093),

Gene: MontyDev_15 Start: 10157, Stop: 10825, Start Num: 2
Candidate Starts for MontyDev_15:
(Start: 2 @10157 has 9 MA's), (3, 10244), (5, 10277), (7, 10313), (8, 10322), (10, 10361), (11, 10379), (12, 10412), (14, 10454), (15, 10484), (21, 10634), (22, 10637), (24, 10709), (25, 10787), (26, 10808),

Gene: Nilo_16 Start: 10496, Stop: 11164, Start Num: 2
Candidate Starts for Nilo_16:
(Start: 2 @10496 has 9 MA's), (3, 10583), (5, 10616), (7, 10652), (8, 10661), (10, 10700), (11, 10718), (12, 10751), (14, 10793), (15, 10823), (21, 10973), (22, 10976), (24, 11048), (25, 11126), (26, 11147),

Gene: Papyrus_15 Start: 10158, Stop: 10826, Start Num: 2
Candidate Starts for Papyrus_15:
(Start: 2 @10158 has 9 MA's), (3, 10245), (5, 10278), (7, 10314), (8, 10323), (10, 10362), (11, 10380), (12, 10413), (13, 10437), (14, 10455), (15, 10485), (21, 10635), (22, 10638), (24, 10710), (25, 10788), (26, 10809),

Gene: Patience_22 Start: 13312, Stop: 14010, Start Num: 1
Candidate Starts for Patience_22:
(Start: 1 @13312 has 3 MA's), (4, 13420), (6, 13486), (7, 13489), (9, 13525), (16, 13657), (17, 13663), (18, 13669), (19, 13774), (23, 13849), (26, 13984),

Gene: Riparian_15 Start: 9957, Stop: 10625, Start Num: 2
Candidate Starts for Riparian_15:
(Start: 2 @9957 has 9 MA's), (3, 10044), (5, 10077), (7, 10113), (8, 10122), (10, 10161), (11, 10179), (12, 10212), (14, 10254), (15, 10284), (20, 10407), (21, 10434), (22, 10437), (24, 10509), (25, 10587), (26, 10608),

Gene: Rope_15 Start: 10149, Stop: 10817, Start Num: 2
Candidate Starts for Rope_15:
(Start: 2 @10149 has 9 MA's), (3, 10236), (5, 10269), (7, 10305), (8, 10314), (10, 10353), (11, 10371), (12, 10404), (13, 10428), (14, 10446), (15, 10476), (21, 10626), (22, 10629), (24, 10701), (25, 10779), (26, 10800),

Gene: Send513_15 Start: 10499, Stop: 11167, Start Num: 2
Candidate Starts for Send513_15:
(Start: 2 @10499 has 9 MA's), (3, 10586), (5, 10619), (7, 10655), (8, 10664), (10, 10703), (11, 10721), (12, 10754), (14, 10796), (15, 10826), (21, 10976), (22, 10979), (24, 11051), (25, 11129), (26, 11150),

Gene: SuperSonics_21 Start: 12479, Stop: 13177, Start Num: 1
Candidate Starts for SuperSonics_21:
(Start: 1 @12479 has 3 MA's), (4, 12587), (6, 12653), (7, 12656), (9, 12692), (16, 12824), (17, 12830), (18, 12836), (19, 12941), (23, 13016), (26, 13151),

Gene: Weiss13_15 Start: 10189, Stop: 10857, Start Num: 2
Candidate Starts for Weiss13_15:
(Start: 2 @10189 has 9 MA's), (3, 10276), (5, 10309), (7, 10345), (8, 10354), (10, 10393), (11, 10411), (12, 10444), (13, 10468), (14, 10486), (15, 10516), (21, 10666), (22, 10669), (24, 10741), (25, 10819), (26, 10840),

Gene: Yelo_15 Start: 10499, Stop: 11167, Start Num: 2
Candidate Starts for Yelo_15:
(Start: 2 @10499 has 9 MA's), (3, 10586), (5, 10619), (7, 10655), (8, 10664), (10, 10703), (11, 10721), (12, 10754), (14, 10796), (15, 10826), (20, 10949), (21, 10976), (22, 10979), (24, 11051), (25, 11129), (26, 11150),

Gene: Zenon_16 Start: 10501, Stop: 11169, Start Num: 2
Candidate Starts for Zenon_16:
(Start: 2 @10501 has 9 MA's), (3, 10588), (5, 10621), (7, 10657), (8, 10666), (10, 10705), (11, 10723), (12, 10756), (14, 10798), (15, 10828), (21, 10978), (22, 10981), (24, 11053), (25, 11131), (26, 11152),