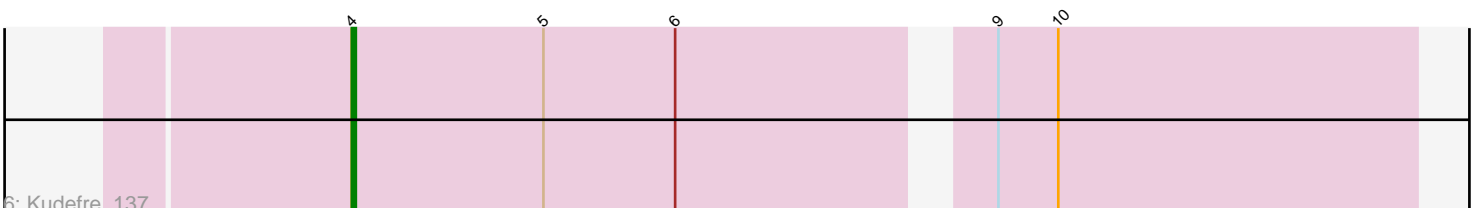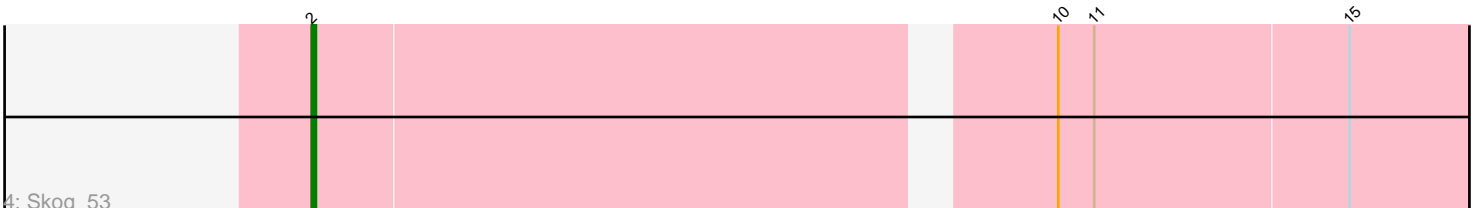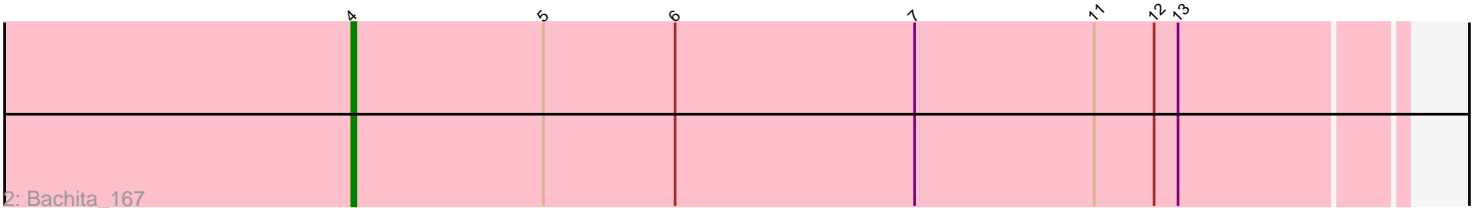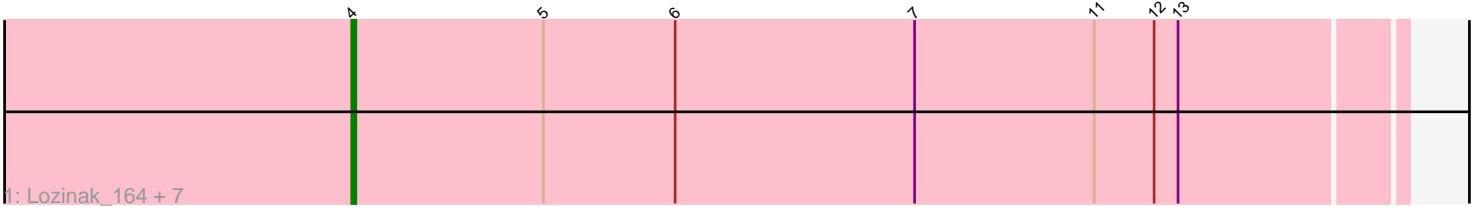# Pham 4667

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 4667 Report

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

Pham number 4667 has 14 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Lozinak_164, PhinkBoden_162, Norvs_162, Cucurbita_163, ClubL_165, Smoothie_166, Toniann_164, Aphelion_163
• Track 2 : Bachita_167
• Track 3 : OneUp_150
• Track 4 : Skog_53
• Track 5 : Sephiroth_131
• Track 6 : Kudefre_137
• Track 7 : Syleon_136

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

The start number called the most often in the published annotations is 4, it was called in 12 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aphelion_163, Bachita_167, ClubL_165, Cucurbita_163, Kudefre_137, Lozinak_164, Norvs_162, PhinkBoden_162, Sephiroth_131, Smoothie_166, Syleon_136, Toniann_164,

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

Genes that do not have the "Most Annotated" start:
• OneUp_150, Skog_53,

Summary by start number:

Start 2:
• Found in 1 of 14 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Skog_53 (DO),

Start 3:

• Found in 1 of 14 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: OneUp_150 (CQ2),

Start 4:
• Found in 12 of 14 (85.7%) of genes in pham
• Manual Annotations of this start: 12 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aphelion_163 (CQ1), Bachita_167 (CQ1), ClubL_165 (CQ1), Cucurbita_163 (CQ1), Kudefre_137 (DU1), Lozinak_164 (CQ1), Norvs_162 (CQ), PhinkBoden_162 (CQ1), Sephiroth_131 (DU1), Smoothie_166 (CQ1), Syleon_136 (DU1), Toniann_164 (CQ1),

Summary by clusters:

There are 5 clusters represented in this pham: DU1, CQ1, CQ, CQ2, DO,

Info for manual annotations of cluster CQ:
•Start number 4 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:
•Start number 4 was manually annotated 8 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 3 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DO:
•Start number 2 was manually annotated 1 time for cluster DO.

Info for manual annotations of cluster DU1:
•Start number 4 was manually annotated 3 times for cluster DU1.

Gene Information:
Gene: Aphelion_163 Start: 85868, Stop: 85608, Start Num: 4
Candidate Starts for Aphelion_163:
(Start: 4 @85868 has 12 MA's), (5, 85820), (6, 85787), (7, 85727), (11, 85682), (12, 85667), (13, 85661),

Gene: Bachita_167 Start: 85946, Stop: 85686, Start Num: 4
Candidate Starts for Bachita_167:
(Start: 4 @85946 has 12 MA's), (5, 85898), (6, 85865), (7, 85805), (11, 85760), (12, 85745), (13, 85739),

Gene: ClubL_165 Start: 85189, Stop: 84929, Start Num: 4
Candidate Starts for ClubL_165:
(Start: 4 @85189 has 12 MA's), (5, 85141), (6, 85108), (7, 85048), (11, 85003), (12, 84988), (13, 84982),

Gene: Cucurbita_163 Start: 86250, Stop: 85990, Start Num: 4

Candidate Starts for Cucurbita_163:
(Start: 4 @86250 has 12 MA's), (5, 86202), (6, 86169), (7, 86109), (11, 86064), (12, 86049), (13, 86043),

Gene: Kudefre_137 Start: 72234, Stop: 71980, Start Num: 4
Candidate Starts for Kudefre_137:
(Start: 4 @72234 has 12 MA's), (5, 72186), (6, 72153), (9, 72084), (10, 72069),

Gene: Lozinak_164 Start: 85793, Stop: 85533, Start Num: 4
Candidate Starts for Lozinak_164:
(Start: 4 @85793 has 12 MA's), (5, 85745), (6, 85712), (7, 85652), (11, 85607), (12, 85592), (13, 85586),

Gene: Norvs_162 Start: 84969, Stop: 84709, Start Num: 4
Candidate Starts for Norvs_162:
(Start: 4 @84969 has 12 MA's), (5, 84921), (6, 84888), (7, 84828), (11, 84783), (12, 84768), (13, 84762),

Gene: OneUp_150 Start: 84894, Stop: 84619, Start Num: 3
Candidate Starts for OneUp_150:
(Start: 3 @84894 has 1 MA's), (5, 84849), (7, 84756), (8, 84747), (9, 84735), (12, 84696), (14, 84687),

Gene: PhinkBoden_162 Start: 85367, Stop: 85107, Start Num: 4
Candidate Starts for PhinkBoden_162:
(Start: 4 @85367 has 12 MA's), (5, 85319), (6, 85286), (7, 85226), (11, 85181), (12, 85166), (13, 85160),

Gene: Sephiroth_131 Start: 71791, Stop: 71537, Start Num: 4
Candidate Starts for Sephiroth_131:
(1, 71848), (Start: 4 @71791 has 12 MA's), (5, 71743), (6, 71710), (9, 71641), (10, 71626),

Gene: Skog_53 Start: 22671, Stop: 22979, Start Num: 2
Candidate Starts for Skog_53:
(Start: 2 @22671 has 1 MA's), (10, 22845), (11, 22854), (15, 22917),

Gene: Smoothie_166 Start: 85665, Stop: 85405, Start Num: 4
Candidate Starts for Smoothie_166:
(Start: 4 @85665 has 12 MA's), (5, 85617), (6, 85584), (7, 85524), (11, 85479), (12, 85464), (13, 85458),

Gene: Syleon_136 Start: 72565, Stop: 72311, Start Num: 4
Candidate Starts for Syleon_136:
(1, 72622), (Start: 4 @72565 has 12 MA's), (5, 72517), (10, 72400),

Gene: Toniann_164 Start: 85110, Stop: 84850, Start Num: 4
Candidate Starts for Toniann_164:
(Start: 4 @85110 has 12 MA's), (5, 85062), (6, 85029), (7, 84969), (11, 84924), (12, 84909), (13, 84903),