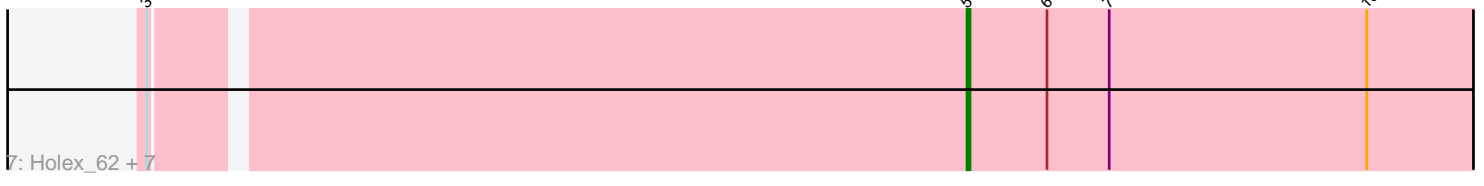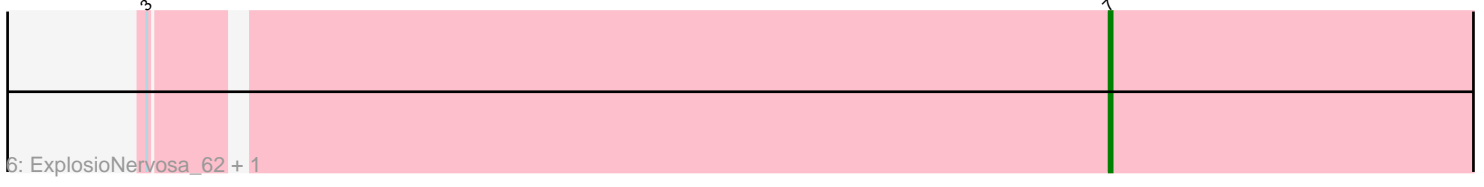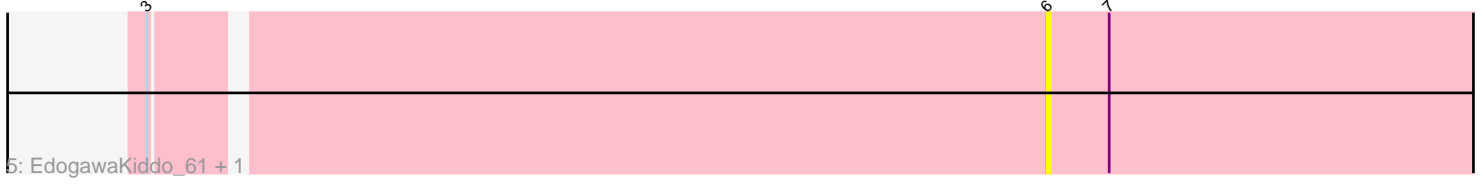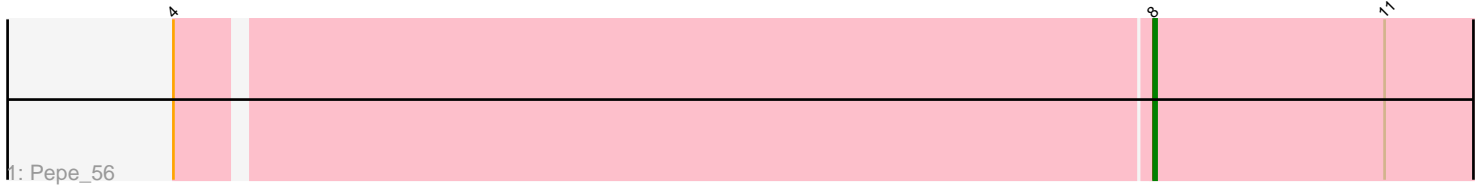# Pham 173229

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 173229 Report

This analysis was run 11/02/24 on database version 579.

Pham number 173229 has 19 members, 12 are drafts.

Phages represented in each track:
• Track 1 : Pepe_56
• Track 2 : Colin_60, WeiHuaDA_62, Pharaoh_57
• Track 3 : SwirlSquare_67
• Track 4 : Caraxes_62
• Track 5 : EdogawaKiddo_61, Sachima_59
• Track 6 : ExplosioNervosa_62, Qobbit_62
• Track 7 : Holex_62, Hanray_62, Pioneer_64, Onglai_62, Catalina_65, Jiawan_61, RyeScarlet_65, PackMan_62
• Track 8 : Lilleskat_60

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 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Catalina_65, Colin_60, Hanray_62, Holex_62, Jiawan_61, Onglai_62, PackMan_62, Pharaoh_57, Pioneer_64, RyeScarlet_65, WeiHuaDA_62,

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

Genes that do not have the "Most Annotated" start:
• Caraxes_62, EdogawaKiddo_61, ExplosioNervosa_62, Lilleskat_60, Pepe_56, Qobbit_62, Sachima_59, SwirlSquare_67,

Summary by start number:

Start 5:
• Found in 11 of 19 (57.9%) 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: Catalina_65 (A9), Colin_60 (A2), Hanray_62 (A9), Holex_62 (A9), Jiawan_61 (A9), Onglai_62 (A9), PackMan_62 (A9),

Pharaoh_57 (A12), Pioneer_64 (A9), RyeScarlet_65 (A9), WeiHuaDA_62 (A2),

Start 6:
• Found in 14 of 19 (73.7%) of genes in pham
• No Manual Annotations of this start.
• Called 14.3% of time when present
• Phage (with cluster) where this start called: EdogawaKiddo_61 (A9), Sachima_59 (A9),

Start 7:
• Found in 18 of 19 (94.7%) of genes in pham
• Manual Annotations of this start: 2 of 7
• Called 27.8% of time when present
• Phage (with cluster) where this start called: Caraxes_62 (A2), ExplosioNervosa_62 (A9), Lilleskat_60 (A9), Qobbit_62 (A9), SwirlSquare_67 (A2),

Start 8:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pepe_56 (A1),

Summary by clusters:

There are 4 clusters represented in this pham: A9, A1, A2, A12,

Info for manual annotations of cluster A1:
•Start number 8 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A12:
•Start number 5 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A9:
•Start number 5 was manually annotated 3 times for cluster A9.
•Start number 7 was manually annotated 2 times for cluster A9.

Gene Information:
Gene: Caraxes_62 Start: 38246, Stop: 38100, Start Num: 7
Candidate Starts for Caraxes_62:
(2, 38582), (Start: 7 @38246 has 2 MA's), (9, 38177),

Gene: Catalina_65 Start: 39771, Stop: 39574, Start Num: 5
Candidate Starts for Catalina_65:
(3, 40038), (Start: 5 @39771 has 4 MA's), (6, 39744), (Start: 7 @39723 has 2 MA's), (10, 39636),

Gene: Colin_60 Start: 39779, Stop: 39588, Start Num: 5
Candidate Starts for Colin_60:
(2, 40055), (Start: 5 @39779 has 4 MA's), (6, 39752), (Start: 7 @39731 has 2 MA's),

Gene: EdogawaKiddo_61 Start: 39708, Stop: 39538, Start Num: 6
Candidate Starts for EdogawaKiddo_61:
(3, 40002), (6, 39708), (Start: 7 @39687 has 2 MA's),

Gene: ExplosioNervosa_62 Start: 39511, Stop: 39362, Start Num: 7
Candidate Starts for ExplosioNervosa_62:
(3, 39826), (Start: 7 @39511 has 2 MA's),

Gene: Hanray_62 Start: 39823, Stop: 39626, Start Num: 5
Candidate Starts for Hanray_62:
(3, 40090), (Start: 5 @39823 has 4 MA's), (6, 39796), (Start: 7 @39775 has 2 MA's), (10, 39688),

Gene: Holex_62 Start: 39839, Stop: 39642, Start Num: 5
Candidate Starts for Holex_62:
(3, 40106), (Start: 5 @39839 has 4 MA's), (6, 39812), (Start: 7 @39791 has 2 MA's), (10, 39704),

Gene: Jiawan_61 Start: 39855, Stop: 39658, Start Num: 5
Candidate Starts for Jiawan_61:
(3, 40122), (Start: 5 @39855 has 4 MA's), (6, 39828), (Start: 7 @39807 has 2 MA's), (10, 39720),

Gene: Lilleskat_60 Start: 39640, Stop: 39491, Start Num: 7
Candidate Starts for Lilleskat_60:
(3, 39955), (6, 39661), (Start: 7 @39640 has 2 MA's),

Gene: Onglai_62 Start: 38111, Stop: 37914, Start Num: 5
Candidate Starts for Onglai_62:
(3, 38378), (Start: 5 @38111 has 4 MA's), (6, 38084), (Start: 7 @38063 has 2 MA's), (10, 37976),

Gene: PackMan_62 Start: 39645, Stop: 39448, Start Num: 5
Candidate Starts for PackMan_62:
(3, 39912), (Start: 5 @39645 has 4 MA's), (6, 39618), (Start: 7 @39597 has 2 MA's), (10, 39510),

Gene: Pepe_56 Start: 38715, Stop: 38569, Start Num: 8
Candidate Starts for Pepe_56:
(4, 39036), (Start: 8 @38715 has 1 MA's), (11, 38637),

Gene: Pharaoh_57 Start: 39486, Stop: 39289, Start Num: 5
Candidate Starts for Pharaoh_57:
(2, 39765), (Start: 5 @39486 has 4 MA's), (6, 39459), (Start: 7 @39438 has 2 MA's),

Gene: Pioneer_64 Start: 39867, Stop: 39670, Start Num: 5
Candidate Starts for Pioneer_64:
(3, 40134), (Start: 5 @39867 has 4 MA's), (6, 39840), (Start: 7 @39819 has 2 MA's), (10, 39732),

Gene: Qobbit_62 Start: 39408, Stop: 39259, Start Num: 7
Candidate Starts for Qobbit_62:
(3, 39723), (Start: 7 @39408 has 2 MA's),

Gene: RyeScarlet_65 Start: 39842, Stop: 39645, Start Num: 5
Candidate Starts for RyeScarlet_65:
(3, 40109), (Start: 5 @39842 has 4 MA's), (6, 39815), (Start: 7 @39794 has 2 MA's), (10, 39707),

Gene: Sachima_59 Start: 39641, Stop: 39471, Start Num: 6

Candidate Starts for Sachima_59:
(3, 39935), (6, 39641), (Start: 7 @39620 has 2 MA's),

Gene: SwirlSquare_67 Start: 39171, Stop: 39025, Start Num: 7
Candidate Starts for SwirlSquare_67:
(1, 39510), (2, 39504), (Start: 7 @39171 has 2 MA's), (9, 39102),

Gene: WeiHuaDA_62 Start: 40326, Stop: 40135, Start Num: 5
Candidate Starts for WeiHuaDA_62:
(2, 40602), (Start: 5 @40326 has 4 MA's), (6, 40299), (Start: 7 @40278 has 2 MA's),