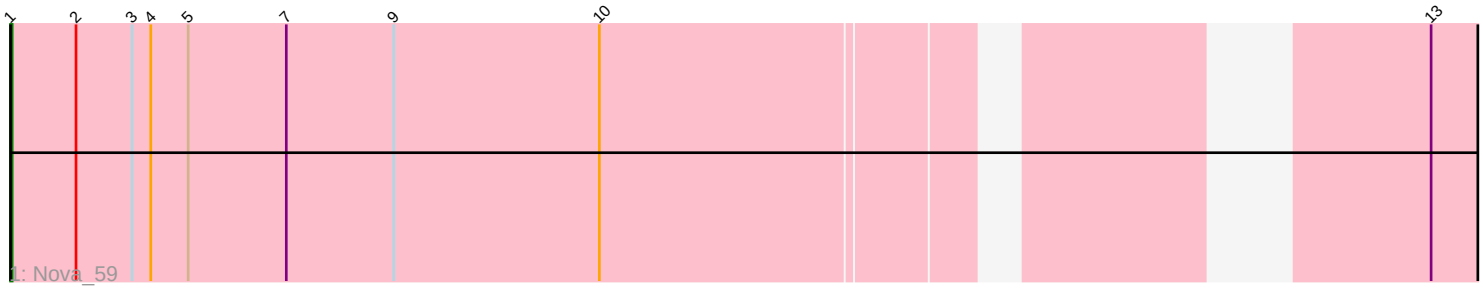
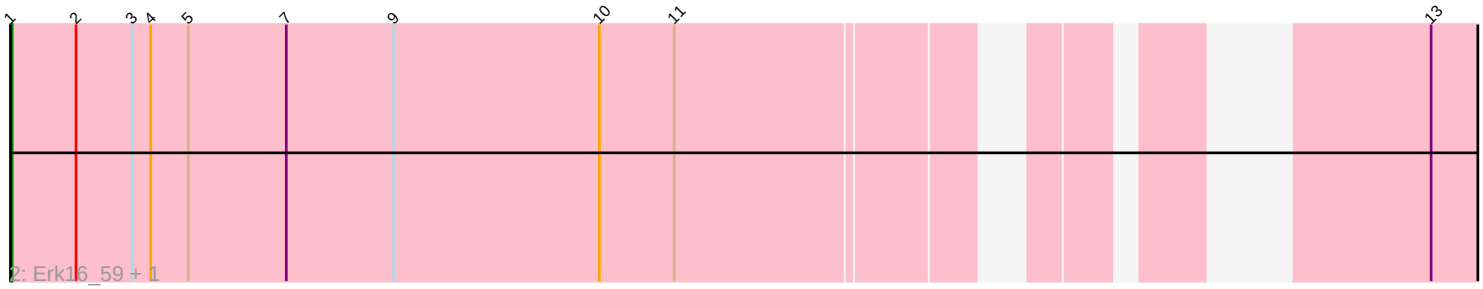
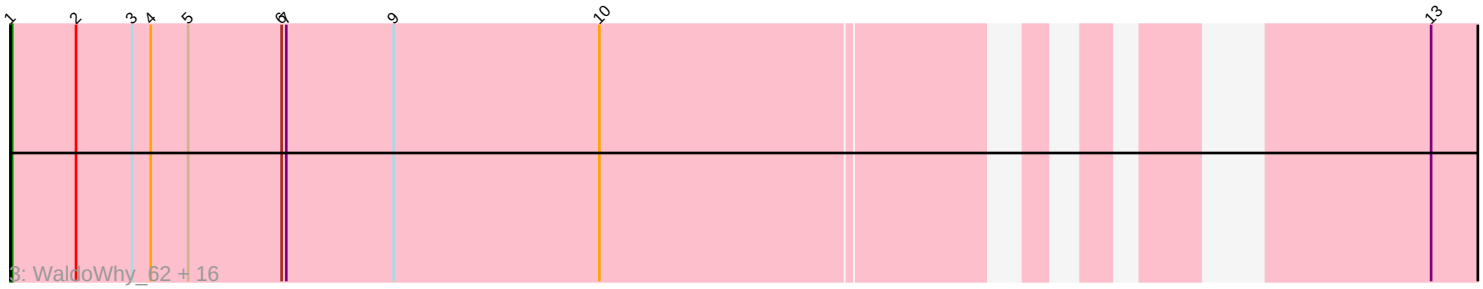
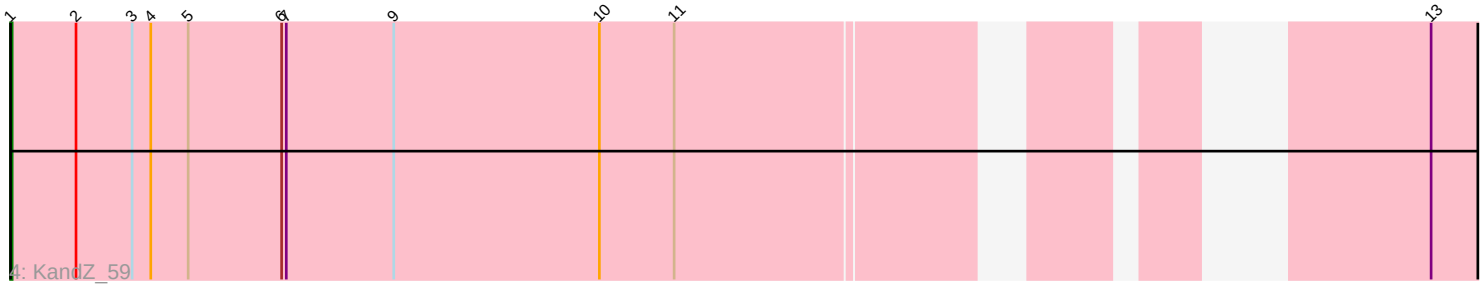
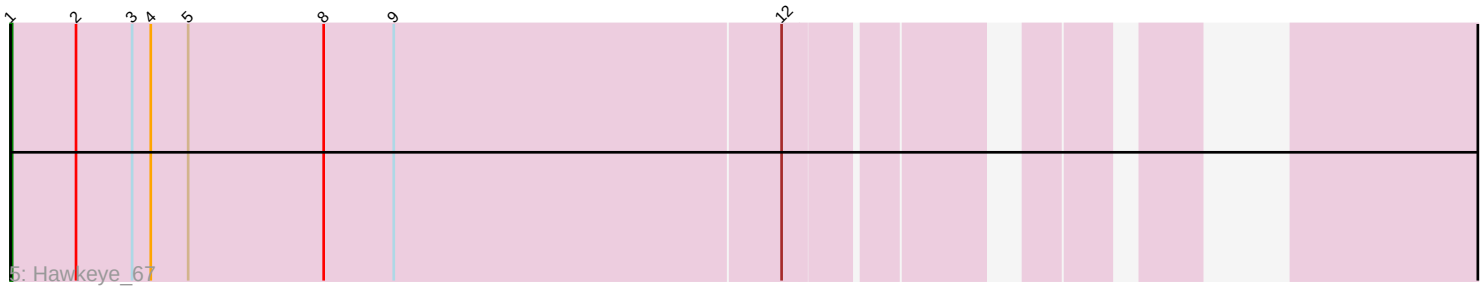
Pham 3485


1 2 3 4 5 7 9 10 13
1: Nova_59


1 2 3 4 5 7 9 10 11 13
2: Erk16_59 + 1


1 2 3 4 5 6 9 10 13
3: WaldoWhy_62 + 16


1 2 3 4 5 6 9 10 11 13
4: KandZ_59


1 2 3 4 5 8 9 12
5: Hawkeye_67

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 3485 Report

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

Pham number 3485 has 22 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Nova_59
• Track 2 : Erk16_59, PLot_60
• Track 3 : WaldoWhy_62, Visconti_61, Adjutor_59, Gumball_60, BigMama_58, Prager_60, Penelope2018_60, Chill_62, PBI1_57, Helpful_63, Troll4_60, Giuseppe_61, Mopey_61, Butterscotch_59, Thoth_60, SirHarley_62, Delton_61
• Track 4 : KandZ_59
• Track 5 : Hawkeye_67

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 21 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adjutor_59, BigMama_58, Butterscotch_59, Chill_62, Delton_61, Erk16_59, Giuseppe_61, Gumball_60, Hawkeye_67, Helpful_63, KandZ_59, Mopey_61, Nova_59, PBI1_57, PLot_60, Penelope2018_60, Prager_60, SirHarley_62, Thoth_60, Troll4_60, Visconti_61, WaldoWhy_62,

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 22 of 22 (100.0%) of genes in pham
• Manual Annotations of this start: 21 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adjutor_59 (D1), BigMama_58 (D1), Butterscotch_59 (D1), Chill_62 (D1), Delton_61 (D1), Erk16_59 (D1), Giuseppe_61 (D1), Gumball_60 (D1), Hawkeye_67 (D2), Helpful_63 (D1), KandZ_59 (D1),

Mopey_61 (D1), Nova_59 (D1), PBI1_57 (D1), PLot_60 (D1), Penelope2018_60 (D1), Prager_60 (D1), SirHarley_62 (D1), Thoth_60 (D1), Troll4_60 (D1), Visconti_61 (D1), WaldoWhy_62 (D1),

Summary by clusters:

There are 2 clusters represented in this pham: D2, D1,

Info for manual annotations of cluster D1:
•Start number 1 was manually annotated 20 times for cluster D1.

Info for manual annotations of cluster D2:
•Start number 1 was manually annotated 1 time for cluster D2.

Gene Information:

Gene: Adjutor_59 Start: 45290, Stop: 46228, Start Num: 1
Candidate Starts for Adjutor_59:
(Start: 1 @45290 has 21 MA's), (2, 45332), (3, 45368), (4, 45380), (5, 45404), (6, 45464), (7, 45467), (9, 45536), (10, 45668), (13, 46130),

Gene: BigMama_58 Start: 45366, Stop: 46301, Start Num: 1
Candidate Starts for BigMama_58:
(Start: 1 @45366 has 21 MA's), (2, 45408), (3, 45444), (4, 45456), (5, 45480), (6, 45540), (7, 45543), (9, 45612), (10, 45744), (13, 46203),

Gene: Butterscotch_59 Start: 45350, Stop: 46279, Start Num: 1
Candidate Starts for Butterscotch_59:
(Start: 1 @45350 has 21 MA's), (2, 45392), (3, 45428), (4, 45440), (5, 45464), (6, 45524), (7, 45527), (9, 45596), (10, 45728), (13, 46181),

Gene: Chill_62 Start: 45413, Stop: 46312, Start Num: 1
Candidate Starts for Chill_62:
(Start: 1 @45413 has 21 MA's), (2, 45455), (3, 45491), (4, 45503), (5, 45527), (6, 45587), (7, 45590), (9, 45659), (10, 45791), (13, 46214),

Gene: Delton_61 Start: 45748, Stop: 46677, Start Num: 1
Candidate Starts for Delton_61:
(Start: 1 @45748 has 21 MA's), (2, 45790), (3, 45826), (4, 45838), (5, 45862), (6, 45922), (7, 45925), (9, 45994), (10, 46126), (13, 46579),

Gene: Erk16_59 Start: 45452, Stop: 46342, Start Num: 1
Candidate Starts for Erk16_59:
(Start: 1 @45452 has 21 MA's), (2, 45494), (3, 45530), (4, 45542), (5, 45566), (7, 45629), (9, 45698), (10, 45830), (11, 45878), (13, 46244),

Gene: Giuseppe_61 Start: 45318, Stop: 46226, Start Num: 1
Candidate Starts for Giuseppe_61:
(Start: 1 @45318 has 21 MA's), (2, 45360), (3, 45396), (4, 45408), (5, 45432), (6, 45492), (7, 45495), (9, 45564), (10, 45696), (13, 46128),

Gene: Gumball_60 Start: 45810, Stop: 46748, Start Num: 1
Candidate Starts for Gumball_60:
(Start: 1 @45810 has 21 MA's), (2, 45852), (3, 45888), (4, 45900), (5, 45924), (6, 45984), (7, 45987), (9, 46056), (10, 46188), (13, 46650),

Gene: Hawkeye_67 Start: 45685, Stop: 46557, Start Num: 1
Candidate Starts for Hawkeye_67:
(Start: 1 @45685 has 21 MA's), (2, 45727), (3, 45763), (4, 45775), (5, 45799), (8, 45886), (9, 45931), (12, 46177),

Gene: Helpful_63 Start: 45679, Stop: 46587, Start Num: 1
Candidate Starts for Helpful_63:
(Start: 1 @45679 has 21 MA's), (2, 45721), (3, 45757), (4, 45769), (5, 45793), (6, 45853), (7, 45856), (9, 45925), (10, 46057), (13, 46489),

Gene: KandZ_59 Start: 45476, Stop: 46372, Start Num: 1
Candidate Starts for KandZ_59:
(Start: 1 @45476 has 21 MA's), (2, 45518), (3, 45554), (4, 45566), (5, 45590), (6, 45650), (7, 45653), (9, 45722), (10, 45854), (11, 45902), (13, 46274),

Gene: Mopey_61 Start: 45354, Stop: 46232, Start Num: 1
Candidate Starts for Mopey_61:
(Start: 1 @45354 has 21 MA's), (2, 45396), (3, 45432), (4, 45444), (5, 45468), (6, 45528), (7, 45531), (9, 45600), (10, 45732), (13, 46134),

Gene: Nova_59 Start: 45806, Stop: 46720, Start Num: 1
Candidate Starts for Nova_59:
(Start: 1 @45806 has 21 MA's), (2, 45848), (3, 45884), (4, 45896), (5, 45920), (7, 45983), (9, 46052), (10, 46184), (13, 46622),

Gene: PBI1_57 Start: 45281, Stop: 46210, Start Num: 1
Candidate Starts for PBI1_57:
(Start: 1 @45281 has 21 MA's), (2, 45323), (3, 45359), (4, 45371), (5, 45395), (6, 45455), (7, 45458), (9, 45527), (10, 45659), (13, 46112),

Gene: PLot_60 Start: 45333, Stop: 46232, Start Num: 1
Candidate Starts for PLot_60:
(Start: 1 @45333 has 21 MA's), (2, 45375), (3, 45411), (4, 45423), (5, 45447), (7, 45510), (9, 45579), (10, 45711), (11, 45759), (13, 46134),

Gene: Penelope2018_60 Start: 45351, Stop: 46253, Start Num: 1
Candidate Starts for Penelope2018_60:
(Start: 1 @45351 has 21 MA's), (2, 45393), (3, 45429), (4, 45441), (5, 45465), (6, 45525), (7, 45528), (9, 45597), (10, 45729), (13, 46155),

Gene: Prager_60 Start: 45370, Stop: 46326, Start Num: 1
Candidate Starts for Prager_60:
(Start: 1 @45370 has 21 MA's), (2, 45412), (3, 45448), (4, 45460), (5, 45484), (6, 45544), (7, 45547), (9, 45616), (10, 45748), (13, 46228),

Gene: SirHarley_62 Start: 45793, Stop: 46731, Start Num: 1
Candidate Starts for SirHarley_62:

(Start: 1 @45793 has 21 MA's), (2, 45835), (3, 45871), (4, 45883), (5, 45907), (6, 45967), (7, 45970), (9, 46039), (10, 46171), (13, 46633),

Gene: Thoth_60 Start: 45349, Stop: 46320, Start Num: 1
Candidate Starts for Thoth_60:
(Start: 1 @45349 has 21 MA's), (2, 45391), (3, 45427), (4, 45439), (5, 45463), (6, 45523), (7, 45526), (9, 45595), (10, 45727), (13, 46222),

Gene: Troll4_60 Start: 45480, Stop: 46388, Start Num: 1
Candidate Starts for Troll4_60:
(Start: 1 @45480 has 21 MA's), (2, 45522), (3, 45558), (4, 45570), (5, 45594), (6, 45654), (7, 45657), (9, 45726), (10, 45858), (13, 46290),

Gene: Visconti_61 Start: 45360, Stop: 46295, Start Num: 1
Candidate Starts for Visconti_61:
(Start: 1 @45360 has 21 MA's), (2, 45402), (3, 45438), (4, 45450), (5, 45474), (6, 45534), (7, 45537), (9, 45606), (10, 45738), (13, 46197),

Gene: WaldoWhy_62 Start: 45413, Stop: 46312, Start Num: 1
Candidate Starts for WaldoWhy_62:
(Start: 1 @45413 has 21 MA's), (2, 45455), (3, 45491), (4, 45503), (5, 45527), (6, 45587), (7, 45590), (9, 45659), (10, 45791), (13, 46214),