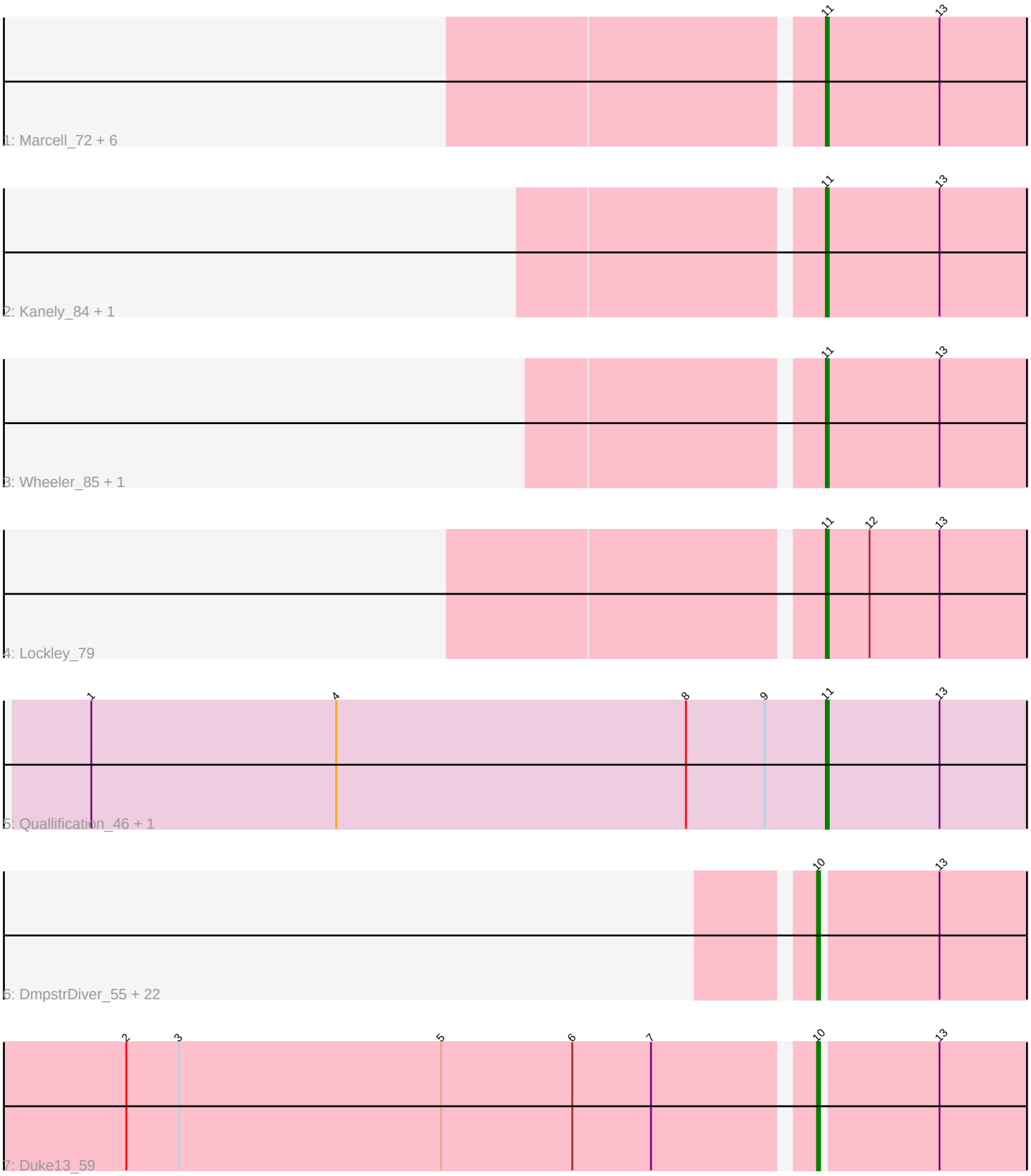
# Pham 86052


11
13
1: Marcell_72 + 6
11
13
2: Kanely_84 + 1
11
13
3: Wheeler_85 + 1
11
12
13
4: Lockley_79
1
4
8
9
11
13
5: Quallification_46 + 1
10
13
6: DmpstrDiver_55 + 22
2
3
5
6
7
10
13
7: Duke13_59

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 86052 Report

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

Pham number 86052 has 38 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Marcell_72, Ruotula_85, Snazzy_81, RidgeCB_75, Fenn_82, Naira_81, STLscum_86
• Track 2 : Kanely_84, Altman_85
• Track 3 : Wheeler_85, Homines_68
• Track 4 : Lockley_79
• Track 5 : Quallification_46, Policronamos_50
• Track 6 : DmpstrDiver_55, KashFlow_49, NihilNomen_55, Wanda_62, Ejimix_56, Phoebus_55, Bagrid_55, Minerva_62, BAKA_60, EricMillard_56, Bombitas_53, Yeet_54, Beem_56, Odette_54, Halley_56, ThreeRngTarjay_54, Redno2_53, Klein_56, Hannaconda_52, HokkenD_49, Optimus_61, Schatzie_51, Hughesyang_54
• Track 7 : Duke13_59

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

The start number called the most often in the published annotations is 10, it was called in 22 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BAKA_60, Bagrid_55, Beem_56, Bombitas_53, DmpstrDiver_55, Duke13_59, Ejimix_56, EricMillard_56, Halley_56, Hannaconda_52, HokkenD_49, Hughesyang_54, KashFlow_49, Klein_56, Minerva_62, NihilNomen_55, Odette_54, Optimus_61, Phoebus_55, Redno2_53, Schatzie_51, ThreeRngTarjay_54, Wanda_62, Yeet_54,

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

Genes that do not have the "Most Annotated" start:
• Altman_85, Fenn_82, Homines_68, Kanely_84, Lockley_79, Marcell_72, Naira_81, Policronamos_50, Quallification_46, RidgeCB_75, Ruotula_85, STLscum_86, Snazzy_81, Wheeler_85,

**Summary by start number:**

Start 10:
• Found in 24 of 38 ( 63.2% ) of genes in pham
• Manual Annotations of this start: 22 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BAKA_60 (J), Bagrid_55 (J), Beem_56 (J), Bombitas_53 (J), DmpstrDiver_55 (J), Duke13_59 (J), Ejimix_56 (J), EricMillard_56 (J), Halley_56 (J), Hannaconda_52 (J), HokkenD_49 (J), Hughesyang_54 (J), KashFlow_49 (J), Klein_56 (J), Minerva_62 (J), NihilNomen_55 (J), Odette_54 (J), Optimus_61 (J), Phoebus_55 (J), Redno2_53 (J), Schatzie_51 (J), ThreeRngTarjay_54 (J), Wanda_62 (J), Yeet_54 (J),

Start 11:
• Found in 14 of 38 ( 36.8% ) of genes in pham
• Manual Annotations of this start: 13 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altman_85 (A1), Fenn_82 (A1), Homines_68 (A1), Kanely_84 (A1), Lockley_79 (A1), Marcell_72 (A1), Naira_81 (A1), Policronamos_50 (E), Quallification_46 (E), RidgeCB_75 (A1), Ruotula_85 (A1), STLscum_86 (A1), Snazzy_81 (A1), Wheeler_85 (A1),

**Summary by clusters:**

There are 3 clusters represented in this pham: A1, J, E,

Info for manual annotations of cluster A1:
•Start number 11 was manually annotated 12 times for cluster A1.

Info for manual annotations of cluster E:
•Start number 11 was manually annotated 1 time for cluster E.

Info for manual annotations of cluster J:
•Start number 10 was manually annotated 22 times for cluster J.

***Gene Information:***

Gene: Altman_85 Start: 49090, Stop: 48965, Start Num: 11
Candidate Starts for Altman_85:
(Start: 11 @49090 has 13 MA's), (13, 49051),

Gene: BAKA_60 Start: 45527, Stop: 45405, Start Num: 10
Candidate Starts for BAKA_60:
(Start: 10 @45527 has 22 MA's), (13, 45488),

Gene: Bagrid_55 Start: 44860, Stop: 44738, Start Num: 10
Candidate Starts for Bagrid_55:
(Start: 10 @44860 has 22 MA's), (13, 44821),

Gene: Beem_56 Start: 45426, Stop: 45304, Start Num: 10
Candidate Starts for Beem_56:
(Start: 10 @45426 has 22 MA's), (13, 45387),

Gene: Bombitas_53 Start: 45021, Stop: 44899, Start Num: 10
Candidate Starts for Bombitas_53:
(Start: 10 @45021 has 22 MA's), (13, 44982),

Gene: DmpstrDiver_55 Start: 44774, Stop: 44652, Start Num: 10
Candidate Starts for DmpstrDiver_55:
(Start: 10 @44774 has 22 MA's), (13, 44735),

Gene: Duke13_59 Start: 45293, Stop: 45171, Start Num: 10
Candidate Starts for Duke13_59:
(2, 45524), (3, 45506), (5, 45416), (6, 45371), (7, 45344), (Start: 10 @45293 has 22 MA's), (13, 45254),

Gene: Ejimix_56 Start: 46211, Stop: 46089, Start Num: 10
Candidate Starts for Ejimix_56:
(Start: 10 @46211 has 22 MA's), (13, 46172),

Gene: EricMillard_56 Start: 45712, Stop: 45590, Start Num: 10
Candidate Starts for EricMillard_56:
(Start: 10 @45712 has 22 MA's), (13, 45673),

Gene: Fenn_82 Start: 48536, Stop: 48411, Start Num: 11
Candidate Starts for Fenn_82:
(Start: 11 @48536 has 13 MA's), (13, 48497),

Gene: Halley_56 Start: 45425, Stop: 45303, Start Num: 10
Candidate Starts for Halley_56:
(Start: 10 @45425 has 22 MA's), (13, 45386),

Gene: Hannaconda_52 Start: 39914, Stop: 39792, Start Num: 10
Candidate Starts for Hannaconda_52:
(Start: 10 @39914 has 22 MA's), (13, 39875),

Gene: HokkenD_49 Start: 43694, Stop: 43572, Start Num: 10
Candidate Starts for HokkenD_49:
(Start: 10 @43694 has 22 MA's), (13, 43655),

Gene: Homines_68 Start: 42639, Stop: 42514, Start Num: 11
Candidate Starts for Homines_68:
(Start: 11 @42639 has 13 MA's), (13, 42600),

Gene: Hughesyang_54 Start: 45354, Stop: 45232, Start Num: 10
Candidate Starts for Hughesyang_54:
(Start: 10 @45354 has 22 MA's), (13, 45315),

Gene: Kanely_84 Start: 48867, Stop: 48742, Start Num: 11
Candidate Starts for Kanely_84:
(Start: 11 @48867 has 13 MA's), (13, 48828),

Gene: KashFlow_49 Start: 39535, Stop: 39413, Start Num: 10
Candidate Starts for KashFlow_49:
(Start: 10 @39535 has 22 MA's), (13, 39496),

Gene: Klein_56 Start: 44992, Stop: 44870, Start Num: 10
Candidate Starts for Klein_56:
(Start: 10 @44992 has 22 MA's), (13, 44953),

Gene: Lockley_79 Start: 47586, Stop: 47461, Start Num: 11
Candidate Starts for Lockley_79:
(Start: 11 @47586 has 13 MA's), (12, 47571), (13, 47547),

Gene: Marcell_72 Start: 45137, Stop: 45012, Start Num: 11
Candidate Starts for Marcell_72:
(Start: 11 @45137 has 13 MA's), (13, 45098),

Gene: Minerva_62 Start: 46842, Stop: 46720, Start Num: 10
Candidate Starts for Minerva_62:
(Start: 10 @46842 has 22 MA's), (13, 46803),

Gene: Naira_81 Start: 48592, Stop: 48467, Start Num: 11
Candidate Starts for Naira_81:
(Start: 11 @48592 has 13 MA's), (13, 48553),

Gene: NihilNomen_55 Start: 45512, Stop: 45390, Start Num: 10
Candidate Starts for NihilNomen_55:
(Start: 10 @45512 has 22 MA's), (13, 45473),

Gene: Odette_54 Start: 44555, Stop: 44433, Start Num: 10
Candidate Starts for Odette_54:
(Start: 10 @44555 has 22 MA's), (13, 44516),

Gene: Optimus_61 Start: 46427, Stop: 46305, Start Num: 10
Candidate Starts for Optimus_61:
(Start: 10 @46427 has 22 MA's), (13, 46388),

Gene: Phoebus_55 Start: 45713, Stop: 45591, Start Num: 10
Candidate Starts for Phoebus_55:
(Start: 10 @45713 has 22 MA's), (13, 45674),

Gene: Policronamos_50 Start: 36523, Stop: 36398, Start Num: 11
Candidate Starts for Policronamos_50:
(1, 36775), (4, 36691), (8, 36571), (9, 36544), (Start: 11 @36523 has 13 MA's), (13, 36484),

Gene: Quallification_46 Start: 36161, Stop: 36036, Start Num: 11
Candidate Starts for Quallification_46:
(1, 36413), (4, 36329), (8, 36209), (9, 36182), (Start: 11 @36161 has 13 MA's), (13, 36122),

Gene: Redno2_53 Start: 42308, Stop: 42186, Start Num: 10
Candidate Starts for Redno2_53:
(Start: 10 @42308 has 22 MA's), (13, 42269),

Gene: RidgeCB_75 Start: 46129, Stop: 46004, Start Num: 11
Candidate Starts for RidgeCB_75:
(Start: 11 @46129 has 13 MA's), (13, 46090),

Gene: Ruotula_85 Start: 49699, Stop: 49574, Start Num: 11

Candidate Starts for Ruotula_85:
(Start: 11 @49699 has 13 MA's), (13, 49660),

Gene: STLscum_86 Start: 48634, Stop: 48509, Start Num: 11
Candidate Starts for STLscum_86:
(Start: 11 @48634 has 13 MA's), (13, 48595),

Gene: Schatzie_51 Start: 44303, Stop: 44181, Start Num: 10
Candidate Starts for Schatzie_51:
(Start: 10 @44303 has 22 MA's), (13, 44264),

Gene: Snazzy_81 Start: 48495, Stop: 48370, Start Num: 11
Candidate Starts for Snazzy_81:
(Start: 11 @48495 has 13 MA's), (13, 48456),

Gene: ThreeRngTarjay_54 Start: 45589, Stop: 45467, Start Num: 10
Candidate Starts for ThreeRngTarjay_54:
(Start: 10 @45589 has 22 MA's), (13, 45550),

Gene: Wanda_62 Start: 45301, Stop: 45179, Start Num: 10
Candidate Starts for Wanda_62:
(Start: 10 @45301 has 22 MA's), (13, 45262),

Gene: Wheeler_85 Start: 49846, Stop: 49721, Start Num: 11
Candidate Starts for Wheeler_85:
(Start: 11 @49846 has 13 MA's), (13, 49807),

Gene: Yeet_54 Start: 44721, Stop: 44599, Start Num: 10
Candidate Starts for Yeet_54:
(Start: 10 @44721 has 22 MA's), (13, 44682),