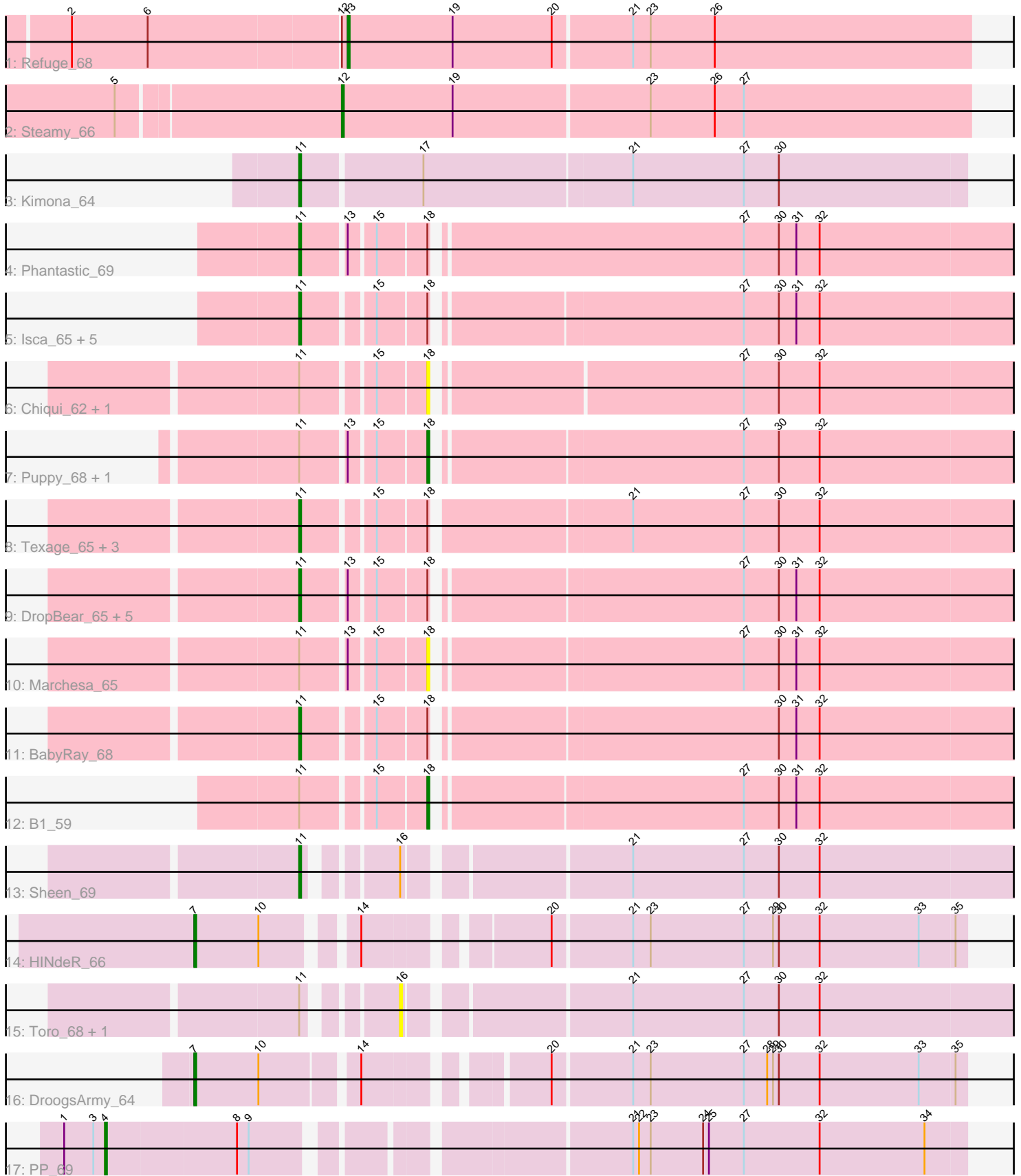


Pham 196702



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 196702 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196702 has 33 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Refuge_68
- Track 2 : Steamy_66
- Track 3 : Kimona_64
- Track 4 : Phantastic_69
- Track 5 : Isca_65, MA5_67, JF4_65, MK4_67, Rockstar_66, JF2_65
- Track 6 : Chiqui_62, BabyJohn_62
- Track 7 : Puppy_68, TNguyen7_68
- Track 8 : Texage_65, Caviar_67, Lambert1_67, Noella_67
- Track 9 : DropBear_65, Scout_66, HelDan_67, Kachowdy_65, Fred313_65, Heathen_67
- Track 10 : Marchesa_65
- Track 11 : BabyRay_68
- Track 12 : B1_59
- Track 13 : Sheen_69
- Track 14 : HINdeR_66
- Track 15 : Toro_68, FlyCatcher_70
- Track 16 : DroogsArmy_64
- Track 17 : PP_69

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

The start number called the most often in the published annotations is 11, it was called in 18 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BabyRay_68, Caviar_67, DropBear_65, Fred313_65, Heathen_67, HelDan_67, Isca_65, JF2_65, JF4_65, Kachowdy_65, Kimona_64, Lambert1_67, MA5_67, MK4_67, Noella_67, Phantastic_69, Rockstar_66, Scout_66, Sheen_69, Texage_65,

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

- B1_59, BabyJohn_62, Chiqui_62, FlyCatcher_70, Marchesa_65, Puppy_68, TNguyen7_68, Toro_68,

Genes that do not have the "Most Annotated" start:

- DroogsArmy_64, HINdeR_66, PP_69, Refuge_68, Steamy_66,

Summary by start number:

Start 4:

- Found in 1 of 33 (3.0%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PP_69 (A7),

Start 7:

- Found in 2 of 33 (6.1%) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DroogsArmy_64 (A7), HINdeR_66 (A7),

Start 11:

- Found in 28 of 33 (84.8%) of genes in pham
- Manual Annotations of this start: 18 of 26
- Called 71.4% of time when present
- Phage (with cluster) where this start called: BabyRay_68 (A3), Caviar_67 (A3), DropBear_65 (A3), Fred313_65 (A3), Heathen_67 (A3), HelDan_67 (A3), Isca_65 (A3), JF2_65 (A3), JF4_65 (A3), Kachowdy_65 (A3), Kimona_64 (A19), Lambert1_67 (A3), MA5_67 (A3), MK4_67 (A3), Noella_67 (A3), Phantastic_69 (A3), Rockstar_66 (A3), Scout_66 (A3), Sheen_69 (A7), Texage_65 (A3),

Start 12:

- Found in 2 of 33 (6.1%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Steamy_66 (A12),

Start 13:

- Found in 11 of 33 (33.3%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Refuge_68 (A12),

Start 16:

- Found in 3 of 33 (9.1%) of genes in pham
- No Manual Annotations of this start.
- Called 66.7% of time when present
- Phage (with cluster) where this start called: FlyCatcher_70 (A7), Toro_68 (A7),

Start 18:

- Found in 24 of 33 (72.7%) of genes in pham
- Manual Annotations of this start: 3 of 26
- Called 25.0% of time when present
- Phage (with cluster) where this start called: B1_59 (A3), BabyJohn_62 (A3), Chiqui_62 (A3), Marchesa_65 (A3), Puppy_68 (A3), TNguyen7_68 (A3),

Summary by clusters:

There are 4 clusters represented in this pham: A3, A19, A7, A12,

Info for manual annotations of cluster A12:

- Start number 12 was manually annotated 1 time for cluster A12.
- Start number 13 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A19:

- Start number 11 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A3:

- Start number 11 was manually annotated 16 times for cluster A3.
- Start number 18 was manually annotated 3 times for cluster A3.

Info for manual annotations of cluster A7:

- Start number 4 was manually annotated 1 time for cluster A7.
- Start number 7 was manually annotated 2 times for cluster A7.
- Start number 11 was manually annotated 1 time for cluster A7.

Gene Information:

Gene: B1_59 Start: 40295, Stop: 39984, Start Num: 18

Candidate Starts for B1_59:

(Start: 11 @40352 has 18 MA's), (15, 40319), (Start: 18 @40295 has 3 MA's), (27, 40145), (30, 40127), (31, 40118), (32, 40106),

Gene: BabyJohn_62 Start: 42122, Stop: 41811, Start Num: 18

Candidate Starts for BabyJohn_62:

(Start: 11 @42179 has 18 MA's), (15, 42146), (Start: 18 @42122 has 3 MA's), (27, 41972), (30, 41954), (32, 41933),

Gene: BabyRay_68 Start: 42157, Stop: 41789, Start Num: 11

Candidate Starts for BabyRay_68:

(Start: 11 @42157 has 18 MA's), (15, 42124), (Start: 18 @42100 has 3 MA's), (30, 41932), (31, 41923), (32, 41911),

Gene: Caviar_67 Start: 42160, Stop: 41789, Start Num: 11

Candidate Starts for Caviar_67:

(Start: 11 @42160 has 18 MA's), (15, 42127), (Start: 18 @42103 has 3 MA's), (21, 42007), (27, 41950), (30, 41932), (32, 41911),

Gene: Chiqui_62 Start: 42131, Stop: 41820, Start Num: 18

Candidate Starts for Chiqui_62:

(Start: 11 @42188 has 18 MA's), (15, 42155), (Start: 18 @42131 has 3 MA's), (27, 41981), (30, 41963), (32, 41942),

Gene: DroogsArmy_64 Start: 45309, Stop: 44944, Start Num: 7

Candidate Starts for DroogsArmy_64:

(Start: 7 @45309 has 2 MA's), (10, 45276), (14, 45231), (20, 45153), (21, 45114), (23, 45105), (27, 45057), (28, 45045), (29, 45042), (30, 45039), (32, 45018), (33, 44967), (35, 44949),

Gene: DropBear_65 Start: 42103, Stop: 41738, Start Num: 11

Candidate Starts for DropBear_65:

(Start: 11 @42103 has 18 MA's), (Start: 13 @42082 has 1 MA's), (15, 42070), (Start: 18 @42046 has 3 MA's), (27, 41896), (30, 41878), (31, 41869), (32, 41857),

Gene: FlyCatcher_70 Start: 45930, Stop: 45607, Start Num: 16

Candidate Starts for FlyCatcher_70:

(Start: 11 @45966 has 18 MA's), (16, 45930), (21, 45825), (27, 45768), (30, 45750), (32, 45729),

Gene: Fred313_65 Start: 41797, Stop: 41432, Start Num: 11

Candidate Starts for Fred313_65:

(Start: 11 @41797 has 18 MA's), (Start: 13 @41776 has 1 MA's), (15, 41764), (Start: 18 @41740 has 3 MA's), (27, 41590), (30, 41572), (31, 41563), (32, 41551),

Gene: HINdeR_66 Start: 44898, Stop: 44536, Start Num: 7

Candidate Starts for HINdeR_66:

(Start: 7 @44898 has 2 MA's), (10, 44865), (14, 44826), (20, 44745), (21, 44706), (23, 44697), (27, 44649), (29, 44634), (30, 44631), (32, 44610), (33, 44559), (35, 44541),

Gene: Heathen_67 Start: 41892, Stop: 41527, Start Num: 11

Candidate Starts for Heathen_67:

(Start: 11 @41892 has 18 MA's), (Start: 13 @41871 has 1 MA's), (15, 41859), (Start: 18 @41835 has 3 MA's), (27, 41685), (30, 41667), (31, 41658), (32, 41646),

Gene: HelDan_67 Start: 42108, Stop: 41743, Start Num: 11

Candidate Starts for HelDan_67:

(Start: 11 @42108 has 18 MA's), (Start: 13 @42087 has 1 MA's), (15, 42075), (Start: 18 @42051 has 3 MA's), (27, 41901), (30, 41883), (31, 41874), (32, 41862),

Gene: Isca_65 Start: 41657, Stop: 41289, Start Num: 11

Candidate Starts for Isca_65:

(Start: 11 @41657 has 18 MA's), (15, 41624), (Start: 18 @41600 has 3 MA's), (27, 41450), (30, 41432), (31, 41423), (32, 41411),

Gene: JF2_65 Start: 40352, Stop: 39984, Start Num: 11

Candidate Starts for JF2_65:

(Start: 11 @40352 has 18 MA's), (15, 40319), (Start: 18 @40295 has 3 MA's), (27, 40145), (30, 40127), (31, 40118), (32, 40106),

Gene: JF4_65 Start: 40352, Stop: 39984, Start Num: 11

Candidate Starts for JF4_65:

(Start: 11 @40352 has 18 MA's), (15, 40319), (Start: 18 @40295 has 3 MA's), (27, 40145), (30, 40127), (31, 40118), (32, 40106),

Gene: Kachowdy_65 Start: 42144, Stop: 41779, Start Num: 11

Candidate Starts for Kachowdy_65:

(Start: 11 @42144 has 18 MA's), (Start: 13 @42123 has 1 MA's), (15, 42111), (Start: 18 @42087 has 3 MA's), (27, 41937), (30, 41919), (31, 41910), (32, 41898),

Gene: Kimona_64 Start: 41048, Stop: 40713, Start Num: 11

Candidate Starts for Kimona_64:

(Start: 11 @41048 has 18 MA's), (17, 40988), (21, 40883), (27, 40826), (30, 40808),

Gene: Lambert1_67 Start: 42160, Stop: 41789, Start Num: 11

Candidate Starts for Lambert1_67:

(Start: 11 @42160 has 18 MA's), (15, 42127), (Start: 18 @42103 has 3 MA's), (21, 42007), (27, 41950), (30, 41932), (32, 41911),

Gene: MA5_67 Start: 41561, Stop: 41193, Start Num: 11

Candidate Starts for MA5_67:

(Start: 11 @41561 has 18 MA's), (15, 41528), (Start: 18 @41504 has 3 MA's), (27, 41354), (30, 41336), (31, 41327), (32, 41315),

Gene: MK4_67 Start: 41636, Stop: 41268, Start Num: 11

Candidate Starts for MK4_67:

(Start: 11 @41636 has 18 MA's), (15, 41603), (Start: 18 @41579 has 3 MA's), (27, 41429), (30, 41411), (31, 41402), (32, 41390),

Gene: Marchesa_65 Start: 42037, Stop: 41729, Start Num: 18

Candidate Starts for Marchesa_65:

(Start: 11 @42094 has 18 MA's), (Start: 13 @42073 has 1 MA's), (15, 42061), (Start: 18 @42037 has 3 MA's), (27, 41887), (30, 41869), (31, 41860), (32, 41848),

Gene: Noella_67 Start: 42161, Stop: 41790, Start Num: 11

Candidate Starts for Noella_67:

(Start: 11 @42161 has 18 MA's), (15, 42128), (Start: 18 @42104 has 3 MA's), (21, 42008), (27, 41951), (30, 41933), (32, 41912),

Gene: PP_69 Start: 46873, Stop: 46463, Start Num: 4

Candidate Starts for PP_69:

(1, 46894), (3, 46879), (Start: 4 @46873 has 1 MA's), (8, 46807), (9, 46801), (21, 46633), (22, 46630), (23, 46624), (24, 46597), (25, 46594), (27, 46576), (32, 46537), (34, 46483),

Gene: Phantastic_69 Start: 41822, Stop: 41451, Start Num: 11

Candidate Starts for Phantastic_69:

(Start: 11 @41822 has 18 MA's), (Start: 13 @41801 has 1 MA's), (15, 41789), (Start: 18 @41765 has 3 MA's), (27, 41612), (30, 41594), (31, 41585), (32, 41573),

Gene: Puppy_68 Start: 41766, Stop: 41455, Start Num: 18

Candidate Starts for Puppy_68:

(Start: 11 @41823 has 18 MA's), (Start: 13 @41802 has 1 MA's), (15, 41790), (Start: 18 @41766 has 3 MA's), (27, 41616), (30, 41598), (32, 41577),

Gene: Refuge_68 Start: 43722, Stop: 43405, Start Num: 13

Candidate Starts for Refuge_68:

(2, 43860), (6, 43821), (Start: 12 @43725 has 1 MA's), (Start: 13 @43722 has 1 MA's), (19, 43668), (20, 43617), (21, 43578), (23, 43569), (26, 43536),

Gene: Rockstar_66 Start: 41645, Stop: 41277, Start Num: 11

Candidate Starts for Rockstar_66:

(Start: 11 @41645 has 18 MA's), (15, 41612), (Start: 18 @41588 has 3 MA's), (27, 41438), (30, 41420), (31, 41411), (32, 41399),

Gene: Scout_66 Start: 41355, Stop: 40990, Start Num: 11

Candidate Starts for Scout_66:

(Start: 11 @41355 has 18 MA's), (Start: 13 @41334 has 1 MA's), (15, 41322), (Start: 18 @41298 has 3 MA's), (27, 41148), (30, 41130), (31, 41121), (32, 41109),

Gene: Sheen_69 Start: 45854, Stop: 45495, Start Num: 11

Candidate Starts for Sheen_69:

(Start: 11 @45854 has 18 MA's), (16, 45818), (21, 45713), (27, 45656), (30, 45638), (32, 45617),

Gene: Steamy_66 Start: 42070, Stop: 41750, Start Num: 12

Candidate Starts for Steamy_66:

(5, 42181), (Start: 12 @42070 has 1 MA's), (19, 42013), (23, 41914), (26, 41881), (27, 41866),

Gene: TNguyen7_68 Start: 42107, Stop: 41796, Start Num: 18

Candidate Starts for TNguyen7_68:

(Start: 11 @42164 has 18 MA's), (Start: 13 @42143 has 1 MA's), (15, 42131), (Start: 18 @42107 has 3 MA's), (27, 41957), (30, 41939), (32, 41918),

Gene: Texage_65 Start: 42161, Stop: 41790, Start Num: 11

Candidate Starts for Texage_65:

(Start: 11 @42161 has 18 MA's), (15, 42128), (Start: 18 @42104 has 3 MA's), (21, 42008), (27, 41951), (30, 41933), (32, 41912),

Gene: Toro_68 Start: 45930, Stop: 45607, Start Num: 16

Candidate Starts for Toro_68:

(Start: 11 @45966 has 18 MA's), (16, 45930), (21, 45825), (27, 45768), (30, 45750), (32, 45729),