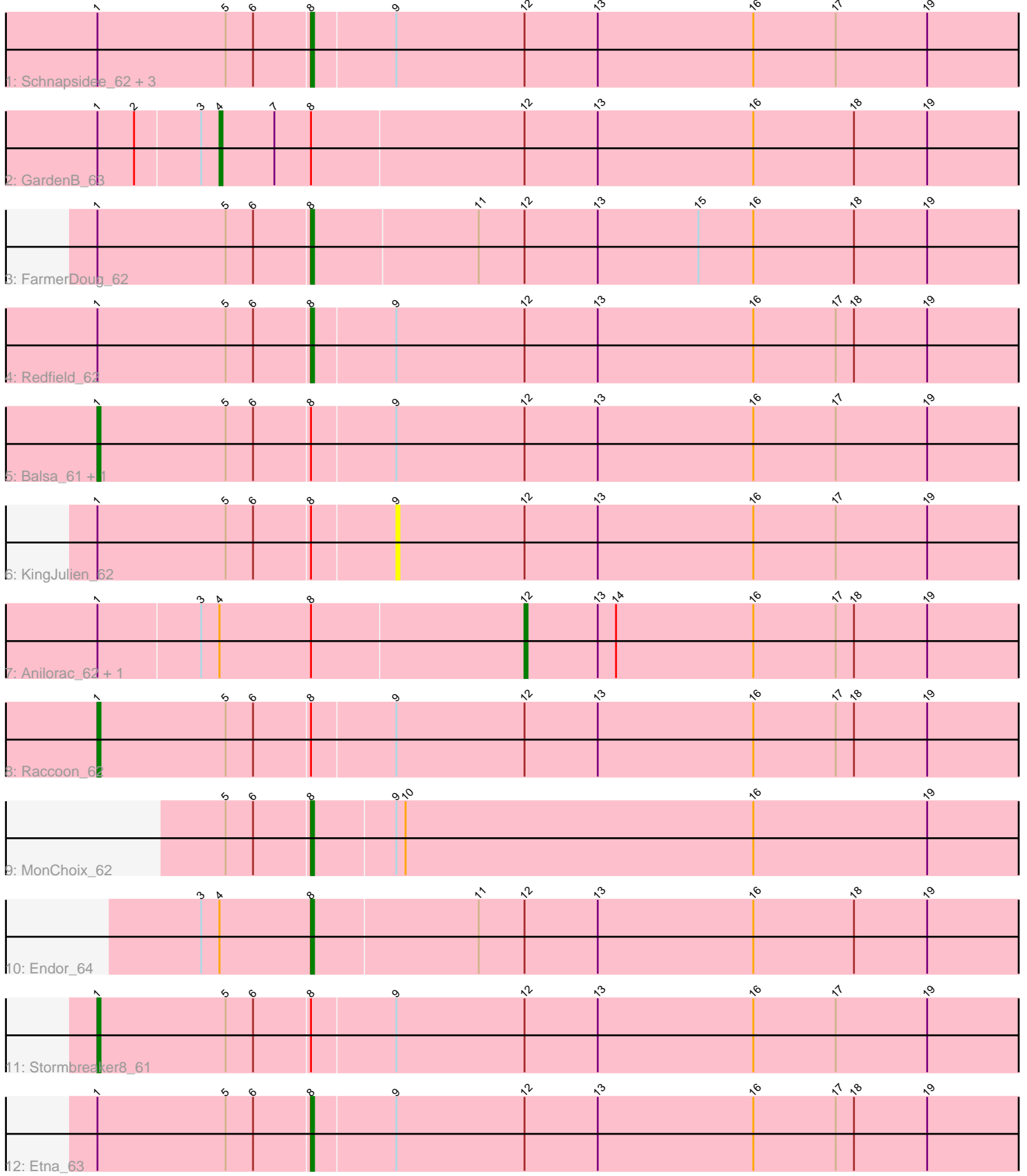


Pham 224955



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 224955 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224955 has 17 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Schnapsidee_62, Peppino_62, BeeBee8_64, Leafus_62
- Track 2 : GardenB_63
- Track 3 : FarmerDoug_62
- Track 4 : Redfield_62
- Track 5 : Balsa_61, Hamlet_62
- Track 6 : KingJulien_62
- Track 7 : Anilorac_62, Agente005_63
- Track 8 : Raccoon_62
- Track 9 : MonChoix_62
- Track 10 : Endor_64
- Track 11 : Stormbreaker8_61
- Track 12 : Etna_63

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

The start number called the most often in the published annotations is 8, it was called in 9 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BeeBee8_64, Endor_64, Etna_63, FarmerDoug_62, Leafus_62, MonChoix_62, Peppino_62, Redfield_62, Schnapsidee_62,

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

- Agente005_63, Anilorac_62, Balsa_61, GardenB_63, Hamlet_62, KingJulien_62, Raccoon_62, Stormbreaker8_61,

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

-

Summary by start number:

Start 1:

- Found in 15 of 17 (88.2%) of genes in pham
- Manual Annotations of this start: 4 of 15

- Called 26.7% of time when present
- Phage (with cluster) where this start called: Balsa_61 (EA1), Hamlet_62 (EA1), Raccoon_62 (EA1), Stormbreaker8_61 (EA1),

Start 4:

- Found in 4 of 17 (23.5%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 25.0% of time when present
- Phage (with cluster) where this start called: GardenB_63 (EA1),

Start 8:

- Found in 17 of 17 (100.0%) of genes in pham
- Manual Annotations of this start: 9 of 15
- Called 52.9% of time when present
- Phage (with cluster) where this start called: BeeBee8_64 (EA1), Endor_64 (EA1), Etna_63 (EA1), FarmerDoug_62 (EA1), Leafus_62 (EA1), MonChoix_62 (EA1), Peppino_62 (EA1), Redfield_62 (EA1), Schnapsidee_62 (EA1),

Start 9:

- Found in 12 of 17 (70.6%) of genes in pham
- No Manual Annotations of this start.
- Called 8.3% of time when present
- Phage (with cluster) where this start called: KingJulien_62 (EA1),

Start 12:

- Found in 16 of 17 (94.1%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Agente005_63 (EA1), Anilorac_62 (EA1),

Summary by clusters:

There is one cluster represented in this pham: EA1

Info for manual annotations of cluster EA1:

- Start number 1 was manually annotated 4 times for cluster EA1.
- Start number 4 was manually annotated 1 time for cluster EA1.
- Start number 8 was manually annotated 9 times for cluster EA1.
- Start number 12 was manually annotated 1 time for cluster EA1.

Gene Information:

Gene: Agente005_63 Start: 40921, Stop: 41103, Start Num: 12

Candidate Starts for Agente005_63:

(Start: 1 @40783 has 4 MA's), (3, 40816), (Start: 4 @40822 has 1 MA's), (Start: 8 @40852 has 9 MA's), (Start: 12 @40921 has 1 MA's), (13, 40945), (14, 40951), (16, 40996), (17, 41023), (18, 41029), (19, 41053),

Gene: Anilorac_62 Start: 40828, Stop: 41010, Start Num: 12

Candidate Starts for Anilorac_62:

(Start: 1 @40690 has 4 MA's), (3, 40723), (Start: 4 @40729 has 1 MA's), (Start: 8 @40759 has 9 MA's), (Start: 12 @40828 has 1 MA's), (13, 40852), (14, 40858), (16, 40903), (17, 40930), (18, 40936), (19, 40960),

Gene: Balsa_61 Start: 40812, Stop: 41132, Start Num: 1

Candidate Starts for Balsa_61:

(Start: 1 @40812 has 4 MA's), (5, 40854), (6, 40863), (Start: 8 @40881 has 9 MA's), (9, 40908), (Start: 12 @40950 has 1 MA's), (13, 40974), (16, 41025), (17, 41052), (19, 41082),

Gene: BeeBee8_64 Start: 41046, Stop: 41297, Start Num: 8

Candidate Starts for BeeBee8_64:

(Start: 1 @40977 has 4 MA's), (5, 41019), (6, 41028), (Start: 8 @41046 has 9 MA's), (9, 41073), (Start: 12 @41115 has 1 MA's), (13, 41139), (16, 41190), (17, 41217), (19, 41247),

Gene: Endor_64 Start: 41279, Stop: 41530, Start Num: 8

Candidate Starts for Endor_64:

(3, 41243), (Start: 4 @41249 has 1 MA's), (Start: 8 @41279 has 9 MA's), (11, 41333), (Start: 12 @41348 has 1 MA's), (13, 41372), (16, 41423), (18, 41456), (19, 41480),

Gene: Etna_63 Start: 40927, Stop: 41178, Start Num: 8

Candidate Starts for Etna_63:

(Start: 1 @40858 has 4 MA's), (5, 40900), (6, 40909), (Start: 8 @40927 has 9 MA's), (9, 40954), (Start: 12 @40996 has 1 MA's), (13, 41020), (16, 41071), (17, 41098), (18, 41104), (19, 41128),

Gene: FarmerDoug_62 Start: 40723, Stop: 40974, Start Num: 8

Candidate Starts for FarmerDoug_62:

(Start: 1 @40654 has 4 MA's), (5, 40696), (6, 40705), (Start: 8 @40723 has 9 MA's), (11, 40777), (Start: 12 @40792 has 1 MA's), (13, 40816), (15, 40849), (16, 40867), (18, 40900), (19, 40924),

Gene: GardenB_63 Start: 41083, Stop: 41364, Start Num: 4

Candidate Starts for GardenB_63:

(Start: 1 @41044 has 4 MA's), (2, 41056), (3, 41077), (Start: 4 @41083 has 1 MA's), (7, 41101), (Start: 8 @41113 has 9 MA's), (Start: 12 @41182 has 1 MA's), (13, 41206), (16, 41257), (18, 41290), (19, 41314),

Gene: Hamlet_62 Start: 40884, Stop: 41204, Start Num: 1

Candidate Starts for Hamlet_62:

(Start: 1 @40884 has 4 MA's), (5, 40926), (6, 40935), (Start: 8 @40953 has 9 MA's), (9, 40980), (Start: 12 @41022 has 1 MA's), (13, 41046), (16, 41097), (17, 41124), (19, 41154),

Gene: KingJulien_62 Start: 40796, Stop: 41020, Start Num: 9

Candidate Starts for KingJulien_62:

(Start: 1 @40700 has 4 MA's), (5, 40742), (6, 40751), (Start: 8 @40769 has 9 MA's), (9, 40796), (Start: 12 @40838 has 1 MA's), (13, 40862), (16, 40913), (17, 40940), (19, 40970),

Gene: Leafus_62 Start: 41019, Stop: 41270, Start Num: 8

Candidate Starts for Leafus_62:

(Start: 1 @40950 has 4 MA's), (5, 40992), (6, 41001), (Start: 8 @41019 has 9 MA's), (9, 41046), (Start: 12 @41088 has 1 MA's), (13, 41112), (16, 41163), (17, 41190), (19, 41220),

Gene: MonChoix_62 Start: 40645, Stop: 40896, Start Num: 8

Candidate Starts for MonChoix_62:

(5, 40618), (6, 40627), (Start: 8 @40645 has 9 MA's), (9, 40672), (10, 40675), (16, 40789), (19, 40846),

Gene: Peppino_62 Start: 40951, Stop: 41202, Start Num: 8

Candidate Starts for Peppino_62:

(Start: 1 @40882 has 4 MA's), (5, 40924), (6, 40933), (Start: 8 @40951 has 9 MA's), (9, 40978), (Start: 12 @41020 has 1 MA's), (13, 41044), (16, 41095), (17, 41122), (19, 41152),

Gene: Raccoon_62 Start: 40844, Stop: 41164, Start Num: 1

Candidate Starts for Raccoon_62:

(Start: 1 @40844 has 4 MA's), (5, 40886), (6, 40895), (Start: 8 @40913 has 9 MA's), (9, 40940), (Start: 12 @40982 has 1 MA's), (13, 41006), (16, 41057), (17, 41084), (18, 41090), (19, 41114),

Gene: Redfield_62 Start: 40949, Stop: 41200, Start Num: 8

Candidate Starts for Redfield_62:

(Start: 1 @40880 has 4 MA's), (5, 40922), (6, 40931), (Start: 8 @40949 has 9 MA's), (9, 40976), (Start: 12 @41018 has 1 MA's), (13, 41042), (16, 41093), (17, 41120), (18, 41126), (19, 41150),

Gene: Schnapsidee_62 Start: 40891, Stop: 41142, Start Num: 8

Candidate Starts for Schnapsidee_62:

(Start: 1 @40822 has 4 MA's), (5, 40864), (6, 40873), (Start: 8 @40891 has 9 MA's), (9, 40918), (Start: 12 @40960 has 1 MA's), (13, 40984), (16, 41035), (17, 41062), (19, 41092),

Gene: Stormbreaker8_61 Start: 40701, Stop: 41021, Start Num: 1

Candidate Starts for Stormbreaker8_61:

(Start: 1 @40701 has 4 MA's), (5, 40743), (6, 40752), (Start: 8 @40770 has 9 MA's), (9, 40797), (Start: 12 @40839 has 1 MA's), (13, 40863), (16, 40914), (17, 40941), (19, 40971),