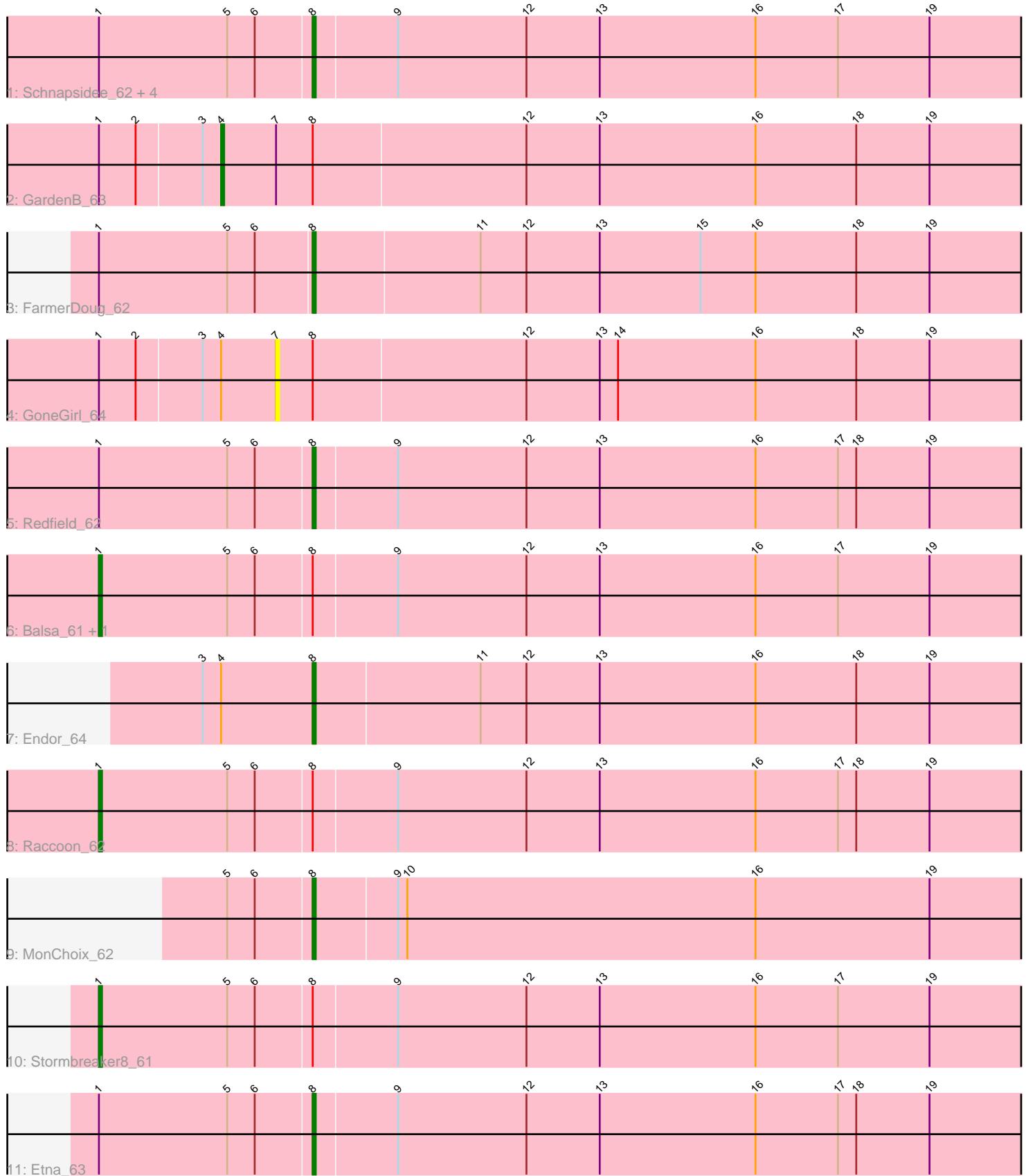


# Pham 235831



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 235831 Report

This analysis was run 02/07/26 on database version 634.

Pham number 235831 has 16 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Schnapsidee\_62, Peppino\_62, BeeBee8\_64, Leafus\_62, PhillyPhantom\_62
- Track 2 : GardenB\_63
- Track 3 : FarmerDoug\_62
- Track 4 : GoneGirl\_64
- Track 5 : Redfield\_62
- Track 6 : Balsa\_61, Hamlet\_62
- Track 7 : Endor\_64
- Track 8 : Raccoon\_62
- Track 9 : MonChoix\_62
- Track 10 : Stormbreaker8\_61
- Track 11 : 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 14 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, PhillyPhantom\_62, Redfield\_62, Schnapsidee\_62,

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

- Balsa\_61, GardenB\_63, GoneGirl\_64, Hamlet\_62, Raccoon\_62, Stormbreaker8\_61,

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

- 

### **Summary by start number:**

Start 1:

- Found in 14 of 16 ( 87.5% ) of genes in pham
- Manual Annotations of this start: 4 of 14
- Called 28.6% 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 3 of 16 ( 18.8% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 33.3% of time when present
- Phage (with cluster) where this start called: GardenB\_63 (EA1),

Start 7:

- Found in 2 of 16 ( 12.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: GoneGirl\_64 (EA1),

Start 8:

- Found in 16 of 16 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 14
- Called 62.5% 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), PhillyPhantom\_62 (EA1), Redfield\_62 (EA1), Schnapsidee\_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.

### **Gene Information:**

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), (12, 40950), (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), (12, 41115), (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), (12, 41348), (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), (12, 40996), (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), (12, 40792), (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), (12, 41182), (13, 41206), (16, 41257), (18, 41290), (19, 41314),

Gene: GoneGirl\_64 Start: 41088, Stop: 41351, Start Num: 7

Candidate Starts for GoneGirl\_64:

(Start: 1 @41031 has 4 MA's), (2, 41043), (3, 41064), (Start: 4 @41070 has 1 MA's), (7, 41088), (Start: 8 @41100 has 9 MA's), (12, 41169), (13, 41193), (14, 41199), (16, 41244), (18, 41277), (19, 41301),

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), (12, 41022), (13, 41046), (16, 41097), (17, 41124), (19, 41154),

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), (12, 41088), (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), (12, 41020), (13, 41044), (16, 41095), (17, 41122), (19, 41152),

Gene: PhillyPhantom\_62 Start: 40841, Stop: 41092, Start Num: 8

Candidate Starts for PhillyPhantom\_62:

(Start: 1 @40772 has 4 MA's), (5, 40814), (6, 40823), (Start: 8 @40841 has 9 MA's), (9, 40868), (12, 40910), (13, 40934), (16, 40985), (17, 41012), (19, 41042),

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), (12, 40982), (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), (12, 41018), (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), (12, 40960), (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), (12, 40839), (13, 40863), (16, 40914), (17, 40941), (19, 40971),