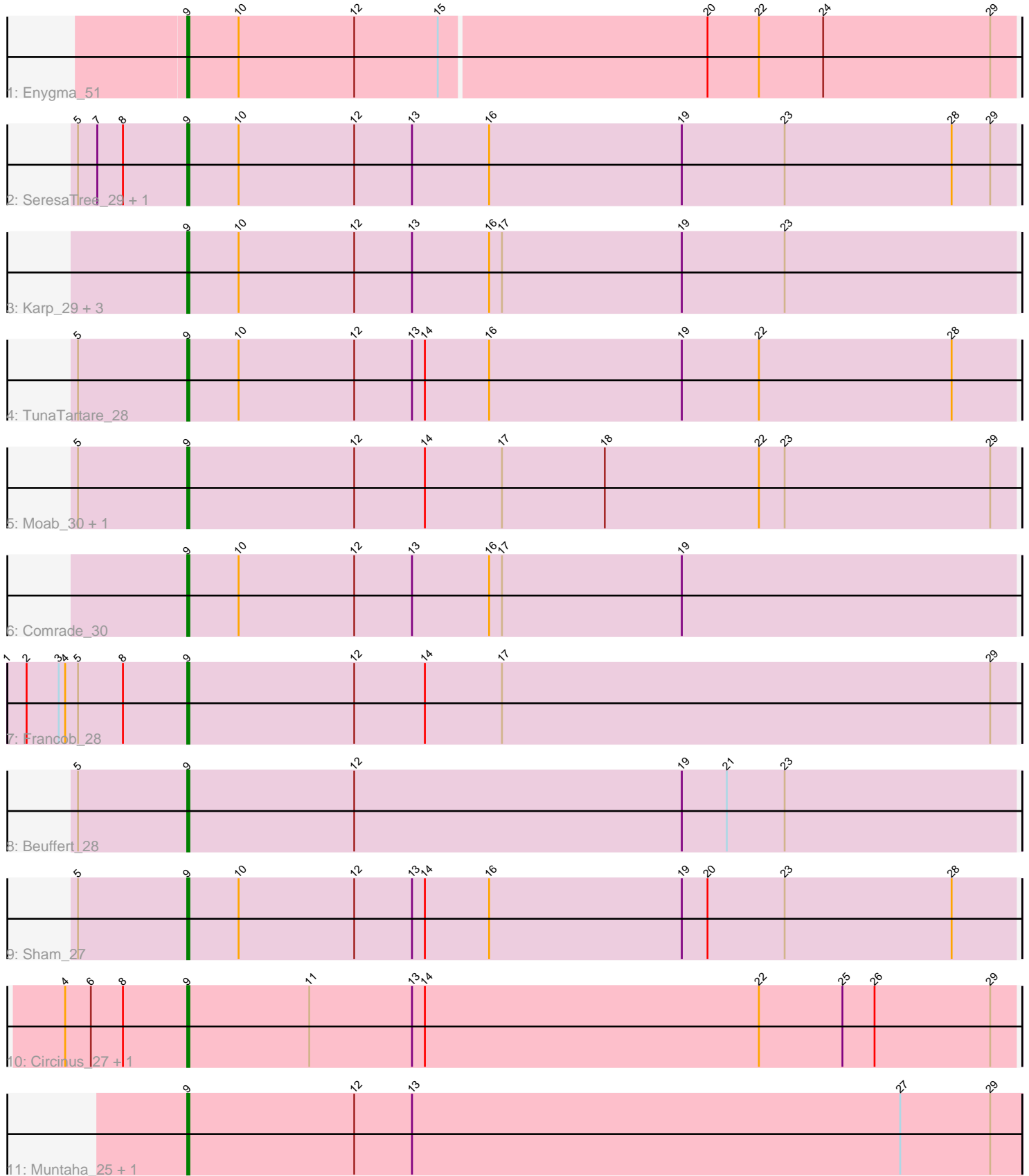


Pham 4487



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 4487 Report

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

Pham number 4487 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Enygma_51
- Track 2 : SeresaTree_29, Faust_29
- Track 3 : Karp_29, Stigma_30, Belfort_31, SparkleGoddess_30
- Track 4 : TunaTartare_28
- Track 5 : Moab_30, Patelgo_30
- Track 6 : Comrade_30
- Track 7 : Francob_28
- Track 8 : Beuffert_28
- Track 9 : Sham_27
- Track 10 : Circinus_27, BillNye_25
- Track 11 : Muntaha_25, Wakanda_25

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

The start number called the most often in the published annotations is 9, it was called in 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort_31, Beuffert_28, BillNye_25, Circinus_27, Comrade_30, Enygma_51, Faust_29, Francob_28, Karp_29, Moab_30, Muntaha_25, Patelgo_30, SeresaTree_29, Sham_27, SparkleGoddess_30, Stigma_30, TunaTartare_28, Wakanda_25,

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 9:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 17 of 17

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort_31 (BK1), Beuffert_28 (BK1), BillNye_25 (BK2), Circinus_27 (BK2), Comrade_30 (BK1), Enygma_51 (BE2), Faust_29 (BK1), Francob_28 (BK1), Karp_29 (BK1), Moab_30 (BK1), Muntaha_25 (BK2), Patelgo_30 (BK1), SeresaTree_29 (BK1), Sham_27 (BK1), SparkleGoddess_30 (BK1), Stigma_30 (BK1), TunaTartare_28 (BK1), Wakanda_25 (BK2),

Summary by clusters:

There are 3 clusters represented in this pham: BE2, BK1, BK2,

Info for manual annotations of cluster BE2:

- Start number 9 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 9 was manually annotated 12 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 9 was manually annotated 4 times for cluster BK2.

Gene Information:

Gene: Belfort_31 Start: 18696, Stop: 19082, Start Num: 9

Candidate Starts for Belfort_31:

(Start: 9 @18696 has 17 MA's), (10, 18720), (12, 18774), (13, 18801), (16, 18837), (17, 18843), (19, 18927), (23, 18975),

Gene: Beuffert_28 Start: 17693, Stop: 18079, Start Num: 9

Candidate Starts for Beuffert_28:

(5, 17642), (Start: 9 @17693 has 17 MA's), (12, 17771), (19, 17924), (21, 17945), (23, 17972),

Gene: BillNye_25 Start: 18436, Stop: 18822, Start Num: 9

Candidate Starts for BillNye_25:

(4, 18379), (6, 18391), (8, 18406), (Start: 9 @18436 has 17 MA's), (11, 18493), (13, 18541), (14, 18547), (22, 18703), (25, 18742), (26, 18757), (29, 18811),

Gene: Circinus_27 Start: 18572, Stop: 18958, Start Num: 9

Candidate Starts for Circinus_27:

(4, 18515), (6, 18527), (8, 18542), (Start: 9 @18572 has 17 MA's), (11, 18629), (13, 18677), (14, 18683), (22, 18839), (25, 18878), (26, 18893), (29, 18947),

Gene: Comrade_30 Start: 18311, Stop: 18697, Start Num: 9

Candidate Starts for Comrade_30:

(Start: 9 @18311 has 17 MA's), (10, 18335), (12, 18389), (13, 18416), (16, 18452), (17, 18458), (19, 18542),

Gene: Enygma_51 Start: 29581, Stop: 29964, Start Num: 9

Candidate Starts for Enygma_51:

(Start: 9 @29581 has 17 MA's), (10, 29605), (12, 29659), (15, 29698), (20, 29821), (22, 29845), (24, 29875), (29, 29953),

Gene: Faust_29 Start: 18147, Stop: 18533, Start Num: 9

Candidate Starts for Faust_29:

(5, 18096), (7, 18105), (8, 18117), (Start: 9 @18147 has 17 MA's), (10, 18171), (12, 18225), (13, 18252), (16, 18288), (19, 18378), (23, 18426), (28, 18504), (29, 18522),

Gene: Francob_28 Start: 17308, Stop: 17694, Start Num: 9

Candidate Starts for Francob_28:

(1, 17224), (2, 17233), (3, 17248), (4, 17251), (5, 17257), (8, 17278), (Start: 9 @17308 has 17 MA's), (12, 17386), (14, 17419), (17, 17455), (29, 17683),

Gene: Karp_29 Start: 17911, Stop: 18297, Start Num: 9

Candidate Starts for Karp_29:

(Start: 9 @17911 has 17 MA's), (10, 17935), (12, 17989), (13, 18016), (16, 18052), (17, 18058), (19, 18142), (23, 18190),

Gene: Moab_30 Start: 18250, Stop: 18636, Start Num: 9

Candidate Starts for Moab_30:

(5, 18199), (Start: 9 @18250 has 17 MA's), (12, 18328), (14, 18361), (17, 18397), (18, 18445), (22, 18517), (23, 18529), (29, 18625),

Gene: Muntaha_25 Start: 17840, Stop: 18229, Start Num: 9

Candidate Starts for Muntaha_25:

(Start: 9 @17840 has 17 MA's), (12, 17918), (13, 17945), (27, 18173), (29, 18215),

Gene: Patelgo_30 Start: 17864, Stop: 18250, Start Num: 9

Candidate Starts for Patelgo_30:

(5, 17813), (Start: 9 @17864 has 17 MA's), (12, 17942), (14, 17975), (17, 18011), (18, 18059), (22, 18131), (23, 18143), (29, 18239),

Gene: SeresaTree_29 Start: 17537, Stop: 17923, Start Num: 9

Candidate Starts for SeresaTree_29:

(5, 17486), (7, 17495), (8, 17507), (Start: 9 @17537 has 17 MA's), (10, 17561), (12, 17615), (13, 17642), (16, 17678), (19, 17768), (23, 17816), (28, 17894), (29, 17912),

Gene: Sham_27 Start: 18595, Stop: 18981, Start Num: 9

Candidate Starts for Sham_27:

(5, 18544), (Start: 9 @18595 has 17 MA's), (10, 18619), (12, 18673), (13, 18700), (14, 18706), (16, 18736), (19, 18826), (20, 18838), (23, 18874), (28, 18952),

Gene: SparkleGoddess_30 Start: 18313, Stop: 18699, Start Num: 9

Candidate Starts for SparkleGoddess_30:

(Start: 9 @18313 has 17 MA's), (10, 18337), (12, 18391), (13, 18418), (16, 18454), (17, 18460), (19, 18544), (23, 18592),

Gene: Stigma_30 Start: 18314, Stop: 18700, Start Num: 9

Candidate Starts for Stigma_30:

(Start: 9 @18314 has 17 MA's), (10, 18338), (12, 18392), (13, 18419), (16, 18455), (17, 18461), (19, 18545), (23, 18593),

Gene: TunaTartare_28 Start: 18888, Stop: 19274, Start Num: 9

Candidate Starts for TunaTartare_28:

(5, 18837), (Start: 9 @18888 has 17 MA's), (10, 18912), (12, 18966), (13, 18993), (14, 18999), (16, 19029), (19, 19119), (22, 19155), (28, 19245),

Gene: Wakanda_25 Start: 17778, Stop: 18167, Start Num: 9

Candidate Starts for Wakanda_25:

(Start: 9 @17778 has 17 MA's), (12, 17856), (13, 17883), (27, 18111), (29, 18153),