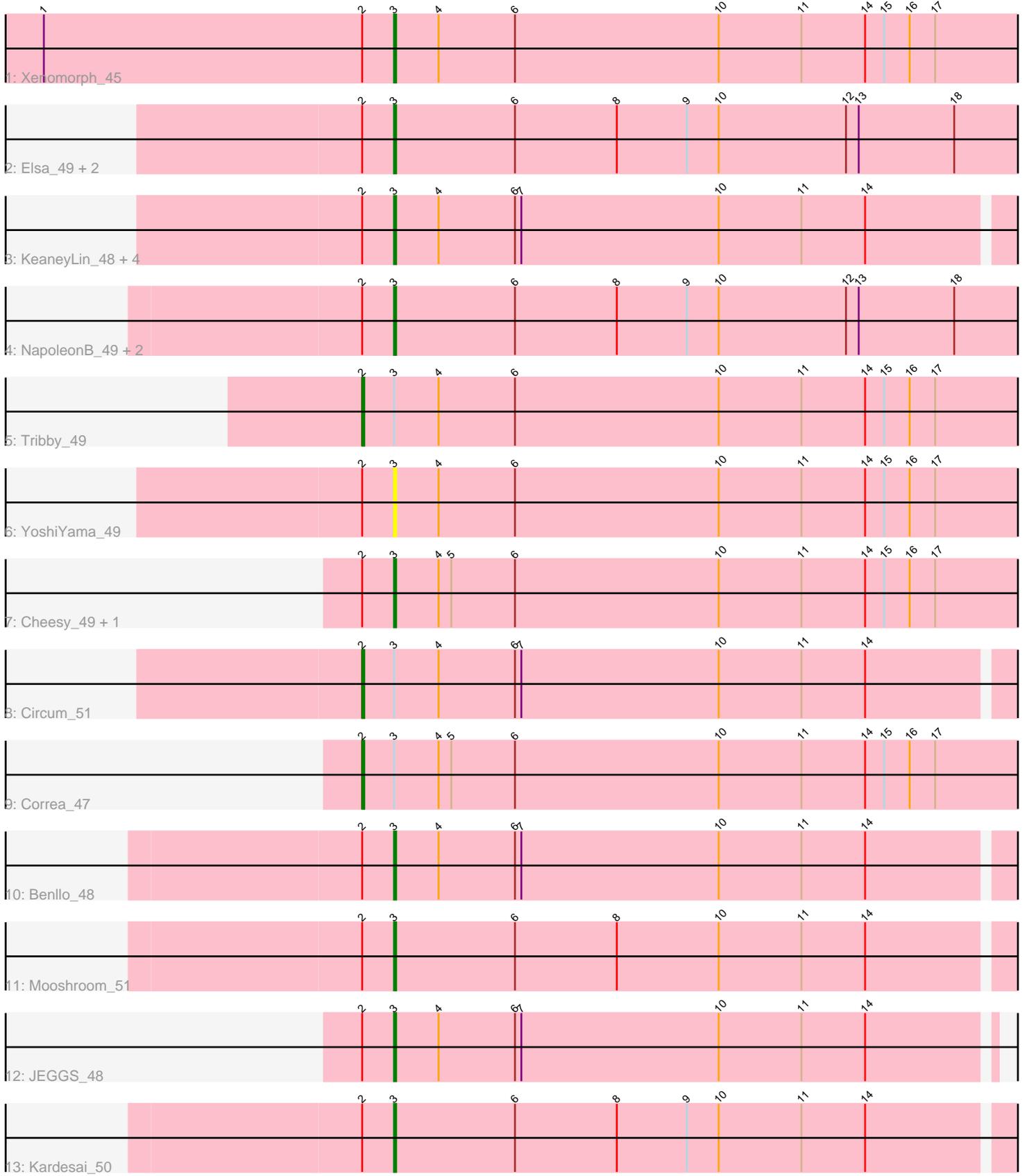


Pham 291535



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 291535 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291535 has 22 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Xenomorph_45
- Track 2 : Elsa_49, Arcadia_49, Nason_49
- Track 3 : KeaneyLin_48, GoCrazy_48, Mudcat_46, Hankly_48, Heisenberger_48
- Track 4 : NapoleonB_49, Dynamite_49, BenitoAntonio_49
- Track 5 : Tribby_49
- Track 6 : YoshiYama_49
- Track 7 : Cheesy_49, Bowling_49
- Track 8 : Circum_51
- Track 9 : Correa_47
- Track 10 : Benllo_48
- Track 11 : Mooshroom_51
- Track 12 : JEGGS_48
- Track 13 : Kardesai_50

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

The start number called the most often in the published annotations is 3, it was called in 18 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia_49, BenitoAntonio_49, Benllo_48, Bowling_49, Cheesy_49, Dynamite_49, Elsa_49, GoCrazy_48, Hankly_48, Heisenberger_48, JEGGS_48, Kardesai_50, KeaneyLin_48, Mooshroom_51, Mudcat_46, NapoleonB_49, Nason_49, Xenomorph_45, YoshiYama_49,

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

- Circum_51, Correa_47, Tribby_49,

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

-

Summary by start number:

Start 2:

- Found in 22 of 22 (100.0%) of genes in pham
- Manual Annotations of this start: 3 of 21
- Called 13.6% of time when present
- Phage (with cluster) where this start called: Circum_51 (AM), Correa_47 (AM), Tribby_49 (AM),

Start 3:

- Found in 22 of 22 (100.0%) of genes in pham
- Manual Annotations of this start: 18 of 21
- Called 86.4% of time when present
- Phage (with cluster) where this start called: Arcadia_49 (AM), BenitoAntonio_49 (AM), Benllo_48 (AM), Bowling_49 (AM), Cheesy_49 (AM), Dynamite_49 (AM), Elsa_49 (AM), GoCrazy_48 (AM), Hankly_48 (AM), Heisenberger_48 (AM), JEGGS_48 (AM), Kardesai_50 (AM), KeaneyLin_48 (AM), Mooshroom_51 (AM), Mudcat_46 (AM), NapoleonB_49 (AM), Nason_49 (AM), Xenomorph_45 (AM), YoshiYama_49 (AM),

Summary by clusters:

There is one cluster represented in this pham: AM

Info for manual annotations of cluster AM:

- Start number 2 was manually annotated 3 times for cluster AM.
- Start number 3 was manually annotated 18 times for cluster AM.

Gene Information:

Gene: Arcadia_49 Start: 32580, Stop: 32888, Start Num: 3

Candidate Starts for Arcadia_49:

(Start: 2 @32565 has 3 MA's), (Start: 3 @32580 has 18 MA's), (6, 32637), (8, 32685), (9, 32718), (10, 32733), (12, 32793), (13, 32799), (18, 32844),

Gene: BenitoAntonio_49 Start: 32116, Stop: 32424, Start Num: 3

Candidate Starts for BenitoAntonio_49:

(Start: 2 @32101 has 3 MA's), (Start: 3 @32116 has 18 MA's), (6, 32173), (8, 32221), (9, 32254), (10, 32269), (12, 32329), (13, 32335), (18, 32380),

Gene: Benllo_48 Start: 32800, Stop: 33102, Start Num: 3

Candidate Starts for Benllo_48:

(Start: 2 @32785 has 3 MA's), (Start: 3 @32800 has 18 MA's), (4, 32821), (6, 32857), (7, 32860), (10, 32953), (11, 32992), (14, 33022),

Gene: Bowling_49 Start: 32325, Stop: 32633, Start Num: 3

Candidate Starts for Bowling_49:

(Start: 2 @32310 has 3 MA's), (Start: 3 @32325 has 18 MA's), (4, 32346), (5, 32352), (6, 32382), (10, 32478), (11, 32517), (14, 32547), (15, 32556), (16, 32568), (17, 32580),

Gene: Cheesy_49 Start: 32301, Stop: 32609, Start Num: 3

Candidate Starts for Cheesy_49:

(Start: 2 @32286 has 3 MA's), (Start: 3 @32301 has 18 MA's), (4, 32322), (5, 32328), (6, 32358), (10, 32454), (11, 32493), (14, 32523), (15, 32532), (16, 32544), (17, 32556),

Gene: Circum_51 Start: 32976, Stop: 33293, Start Num: 2

Candidate Starts for Circum_51:

(Start: 2 @32976 has 3 MA's), (Start: 3 @32991 has 18 MA's), (4, 33012), (6, 33048), (7, 33051), (10, 33144), (11, 33183), (14, 33213),

Gene: Correa_47 Start: 31432, Stop: 31755, Start Num: 2

Candidate Starts for Correa_47:

(Start: 2 @31432 has 3 MA's), (Start: 3 @31447 has 18 MA's), (4, 31468), (5, 31474), (6, 31504), (10, 31600), (11, 31639), (14, 31669), (15, 31678), (16, 31690), (17, 31702),

Gene: Dynamite_49 Start: 32516, Stop: 32824, Start Num: 3

Candidate Starts for Dynamite_49:

(Start: 2 @32501 has 3 MA's), (Start: 3 @32516 has 18 MA's), (6, 32573), (8, 32621), (9, 32654), (10, 32669), (12, 32729), (13, 32735), (18, 32780),

Gene: Elsa_49 Start: 32580, Stop: 32888, Start Num: 3

Candidate Starts for Elsa_49:

(Start: 2 @32565 has 3 MA's), (Start: 3 @32580 has 18 MA's), (6, 32637), (8, 32685), (9, 32718), (10, 32733), (12, 32793), (13, 32799), (18, 32844),

Gene: GoCrazy_48 Start: 32456, Stop: 32758, Start Num: 3

Candidate Starts for GoCrazy_48:

(Start: 2 @32441 has 3 MA's), (Start: 3 @32456 has 18 MA's), (4, 32477), (6, 32513), (7, 32516), (10, 32609), (11, 32648), (14, 32678),

Gene: Hankly_48 Start: 31730, Stop: 32032, Start Num: 3

Candidate Starts for Hankly_48:

(Start: 2 @31715 has 3 MA's), (Start: 3 @31730 has 18 MA's), (4, 31751), (6, 31787), (7, 31790), (10, 31883), (11, 31922), (14, 31952),

Gene: Heisenberger_48 Start: 32020, Stop: 32313, Start Num: 3

Candidate Starts for Heisenberger_48:

(Start: 2 @32005 has 3 MA's), (Start: 3 @32020 has 18 MA's), (4, 32041), (6, 32077), (7, 32080), (10, 32173), (11, 32212), (14, 32242),

Gene: JEGGS_48 Start: 32075, Stop: 32368, Start Num: 3

Candidate Starts for JEGGS_48:

(Start: 2 @32060 has 3 MA's), (Start: 3 @32075 has 18 MA's), (4, 32096), (6, 32132), (7, 32135), (10, 32228), (11, 32267), (14, 32297),

Gene: Kardesai_50 Start: 32700, Stop: 33002, Start Num: 3

Candidate Starts for Kardesai_50:

(Start: 2 @32685 has 3 MA's), (Start: 3 @32700 has 18 MA's), (6, 32757), (8, 32805), (9, 32838), (10, 32853), (11, 32892), (14, 32922),

Gene: KeaneyLin_48 Start: 32456, Stop: 32758, Start Num: 3

Candidate Starts for KeaneyLin_48:

(Start: 2 @32441 has 3 MA's), (Start: 3 @32456 has 18 MA's), (4, 32477), (6, 32513), (7, 32516), (10, 32609), (11, 32648), (14, 32678),

Gene: Mooshroom_51 Start: 32700, Stop: 33002, Start Num: 3

Candidate Starts for Mooshroom_51:

(Start: 2 @32685 has 3 MA's), (Start: 3 @32700 has 18 MA's), (6, 32757), (8, 32805), (10, 32853), (11, 32892), (14, 32922),

Gene: Mudcat_46 Start: 33433, Stop: 33726, Start Num: 3

Candidate Starts for Mudcat_46:

(Start: 2 @33418 has 3 MA's), (Start: 3 @33433 has 18 MA's), (4, 33454), (6, 33490), (7, 33493), (10, 33586), (11, 33625), (14, 33655),

Gene: NapoleonB_49 Start: 32516, Stop: 32824, Start Num: 3

Candidate Starts for NapoleonB_49:

(Start: 2 @32501 has 3 MA's), (Start: 3 @32516 has 18 MA's), (6, 32573), (8, 32621), (9, 32654), (10, 32669), (12, 32729), (13, 32735), (18, 32780),

Gene: Nason_49 Start: 32580, Stop: 32888, Start Num: 3

Candidate Starts for Nason_49:

(Start: 2 @32565 has 3 MA's), (Start: 3 @32580 has 18 MA's), (6, 32637), (8, 32685), (9, 32718), (10, 32733), (12, 32793), (13, 32799), (18, 32844),

Gene: Tribby_49 Start: 32243, Stop: 32566, Start Num: 2

Candidate Starts for Tribby_49:

(Start: 2 @32243 has 3 MA's), (Start: 3 @32258 has 18 MA's), (4, 32279), (6, 32315), (10, 32411), (11, 32450), (14, 32480), (15, 32489), (16, 32501), (17, 32513),

Gene: Xenomorph_45 Start: 31991, Stop: 32299, Start Num: 3

Candidate Starts for Xenomorph_45:

(1, 31826), (Start: 2 @31976 has 3 MA's), (Start: 3 @31991 has 18 MA's), (4, 32012), (6, 32048), (10, 32144), (11, 32183), (14, 32213), (15, 32222), (16, 32234), (17, 32246),

Gene: YoshiYama_49 Start: 32575, Stop: 32883, Start Num: 3

Candidate Starts for YoshiYama_49:

(Start: 2 @32560 has 3 MA's), (Start: 3 @32575 has 18 MA's), (4, 32596), (6, 32632), (10, 32728), (11, 32767), (14, 32797), (15, 32806), (16, 32818), (17, 32830),