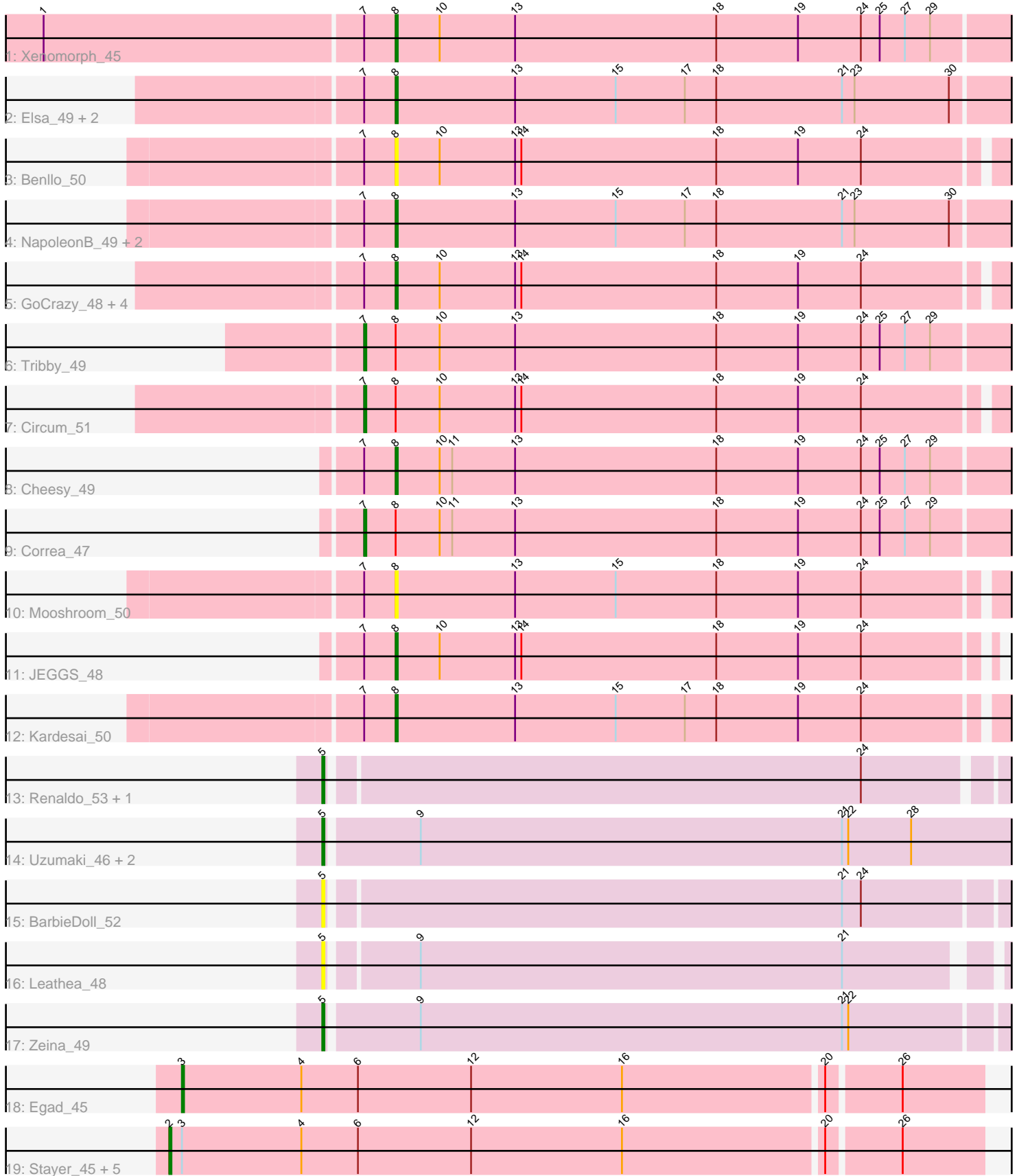


Pham 158050



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 158050 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158050 has 35 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Xenomorph_45
- Track 2 : Elsa_49, Arcadia_49, Nason_49
- Track 3 : Benllo_50
- Track 4 : NapoleonB_49, Dynamite_49, BenitoAntonio_49
- Track 5 : GoCrazy_48, Mudcat_46, Hankly_48, Heisenberger_48, KeaneyLin_48
- Track 6 : Tribby_49
- Track 7 : Circum_51
- Track 8 : Cheesy_49
- Track 9 : Correa_47
- Track 10 : Mooshroom_50
- Track 11 : JEGGS_48
- Track 12 : Kardesai_50
- Track 13 : Renaldo_53, Lewando_50
- Track 14 : Uzumaki_46, GantcherGoblin_47, Argan_47
- Track 15 : BarbieDoll_52
- Track 16 : Leathea_48
- Track 17 : Zeina_49
- Track 18 : Egad_45
- Track 19 : Stayer_45, Sloopyjoe_45, StarLord_45, Michelle_45, Salk_45, Shiba_44

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 15 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia_49, BenitoAntonio_49, Benllo_50, Cheesy_49, Dynamite_49, Elsa_49, GoCrazy_48, Hankly_48, Heisenberger_48, JEGGS_48, Kardesai_50, KeaneyLin_48, Mooshroom_50, Mudcat_46, NapoleonB_49, Nason_49, Xenomorph_45,

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:

- Argan_47, BarbieDoll_52, Egad_45, GantcherGoblin_47, Leathea_48, Lewando_50, Michelle_45, Renaldo_53, Salk_45, Shiba_44, Sloopyjoe_45, StarLord_45, Stayer_45, Uzumaki_46, Zeina_49,

Summary by start number:

Start 2:

- Found in 6 of 35 (17.1%) of genes in pham
- Manual Annotations of this start: 6 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Michelle_45 (AW), Salk_45 (AW), Shiba_44 (AW), Sloopyjoe_45 (AW), StarLord_45 (AW), Stayer_45 (AW),

Start 3:

- Found in 7 of 35 (20.0%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Egad_45 (AW),

Start 5:

- Found in 8 of 35 (22.9%) of genes in pham
- Manual Annotations of this start: 5 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argan_47 (AU6), BarbieDoll_52 (AU6), GantcherGoblin_47 (AU6), Leathea_48 (AU6), Lewando_50 (AU6), Renaldo_53 (AU6), Uzumaki_46 (AU6), Zeina_49 (AU6),

Start 7:

- Found in 20 of 35 (57.1%) of genes in pham
- Manual Annotations of this start: 3 of 30
- Called 15.0% of time when present
- Phage (with cluster) where this start called: Circum_51 (AM), Correa_47 (AM), Tribby_49 (AM),

Start 8:

- Found in 20 of 35 (57.1%) of genes in pham
- Manual Annotations of this start: 15 of 30
- Called 85.0% of time when present
- Phage (with cluster) where this start called: Arcadia_49 (AM), BenitoAntonio_49 (AM), Benllo_50 (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_50 (AM), Mudcat_46 (AM), NapoleonB_49 (AM), Nason_49 (AM), Xenomorph_45 (AM),

Summary by clusters:

There are 3 clusters represented in this pham: AM, AW, AU6,

Info for manual annotations of cluster AM:

- Start number 7 was manually annotated 3 times for cluster AM.
- Start number 8 was manually annotated 15 times for cluster AM.

Info for manual annotations of cluster AU6:

- Start number 5 was manually annotated 5 times for cluster AU6.

Info for manual annotations of cluster AW:

- Start number 2 was manually annotated 6 times for cluster AW.
- Start number 3 was manually annotated 1 time for cluster AW.

Gene Information:

Gene: Arcadia_49 Start: 32580, Stop: 32888, Start Num: 8

Candidate Starts for Arcadia_49:

(Start: 7 @32565 has 3 MA's), (Start: 8 @32580 has 15 MA's), (13, 32637), (15, 32685), (17, 32718), (18, 32733), (21, 32793), (23, 32799), (30, 32844),

Gene: Argan_47 Start: 32696, Stop: 33043, Start Num: 5

Candidate Starts for Argan_47:

(Start: 5 @32696 has 5 MA's), (9, 32738), (21, 32939), (22, 32942), (28, 32972),

Gene: BarbieDoll_52 Start: 34320, Stop: 34643, Start Num: 5

Candidate Starts for BarbieDoll_52:

(Start: 5 @34320 has 5 MA's), (21, 34560), (24, 34569),

Gene: BenitoAntonio_49 Start: 32116, Stop: 32424, Start Num: 8

Candidate Starts for BenitoAntonio_49:

(Start: 7 @32101 has 3 MA's), (Start: 8 @32116 has 15 MA's), (13, 32173), (15, 32221), (17, 32254), (18, 32269), (21, 32329), (23, 32335), (30, 32380),

Gene: Benllo_50 Start: 32800, Stop: 33102, Start Num: 8

Candidate Starts for Benllo_50:

(Start: 7 @32785 has 3 MA's), (Start: 8 @32800 has 15 MA's), (10, 32821), (13, 32857), (14, 32860), (18, 32953), (19, 32992), (24, 33022),

Gene: Cheesy_49 Start: 32301, Stop: 32609, Start Num: 8

Candidate Starts for Cheesy_49:

(Start: 7 @32286 has 3 MA's), (Start: 8 @32301 has 15 MA's), (10, 32322), (11, 32328), (13, 32358), (18, 32454), (19, 32493), (24, 32523), (25, 32532), (27, 32544), (29, 32556),

Gene: Circum_51 Start: 32976, Stop: 33293, Start Num: 7

Candidate Starts for Circum_51:

(Start: 7 @32976 has 3 MA's), (Start: 8 @32991 has 15 MA's), (10, 33012), (13, 33048), (14, 33051), (18, 33144), (19, 33183), (24, 33213),

Gene: Correa_47 Start: 31432, Stop: 31755, Start Num: 7

Candidate Starts for Correa_47:

(Start: 7 @31432 has 3 MA's), (Start: 8 @31447 has 15 MA's), (10, 31468), (11, 31474), (13, 31504), (18, 31600), (19, 31639), (24, 31669), (25, 31678), (27, 31690), (29, 31702),

Gene: Dynamite_49 Start: 32516, Stop: 32824, Start Num: 8

Candidate Starts for Dynamite_49:

(Start: 7 @32501 has 3 MA's), (Start: 8 @32516 has 15 MA's), (13, 32573), (15, 32621), (17, 32654), (18, 32669), (21, 32729), (23, 32735), (30, 32780),

Gene: Egad_45 Start: 31754, Stop: 32128, Start Num: 3

Candidate Starts for Egad_45:

(Start: 3 @31754 has 1 MA's), (4, 31811), (6, 31838), (12, 31892), (16, 31964), (20, 32057), (26, 32090),

Gene: Elsa_49 Start: 32580, Stop: 32888, Start Num: 8

Candidate Starts for Elsa_49:

(Start: 7 @32565 has 3 MA's), (Start: 8 @32580 has 15 MA's), (13, 32637), (15, 32685), (17, 32718), (18, 32733), (21, 32793), (23, 32799), (30, 32844),

Gene: GantcherGoblin_47 Start: 32895, Stop: 33227, Start Num: 5

Candidate Starts for GantcherGoblin_47:

(Start: 5 @32895 has 5 MA's), (9, 32937), (21, 33138), (22, 33141), (28, 33171),

Gene: GoCrazy_48 Start: 32456, Stop: 32758, Start Num: 8

Candidate Starts for GoCrazy_48:

(Start: 7 @32441 has 3 MA's), (Start: 8 @32456 has 15 MA's), (10, 32477), (13, 32513), (14, 32516), (18, 32609), (19, 32648), (24, 32678),

Gene: Hankly_48 Start: 31730, Stop: 32032, Start Num: 8

Candidate Starts for Hankly_48:

(Start: 7 @31715 has 3 MA's), (Start: 8 @31730 has 15 MA's), (10, 31751), (13, 31787), (14, 31790), (18, 31883), (19, 31922), (24, 31952),

Gene: Heisenberger_48 Start: 32020, Stop: 32313, Start Num: 8

Candidate Starts for Heisenberger_48:

(Start: 7 @32005 has 3 MA's), (Start: 8 @32020 has 15 MA's), (10, 32041), (13, 32077), (14, 32080), (18, 32173), (19, 32212), (24, 32242),

Gene: JEGGS_48 Start: 32075, Stop: 32368, Start Num: 8

Candidate Starts for JEGGS_48:

(Start: 7 @32060 has 3 MA's), (Start: 8 @32075 has 15 MA's), (10, 32096), (13, 32132), (14, 32135), (18, 32228), (19, 32267), (24, 32297),

Gene: Kardesai_50 Start: 32700, Stop: 33002, Start Num: 8

Candidate Starts for Kardesai_50:

(Start: 7 @32685 has 3 MA's), (Start: 8 @32700 has 15 MA's), (13, 32757), (15, 32805), (17, 32838), (18, 32853), (19, 32892), (24, 32922),

Gene: KeaneyLin_48 Start: 32456, Stop: 32758, Start Num: 8

Candidate Starts for KeaneyLin_48:

(Start: 7 @32441 has 3 MA's), (Start: 8 @32456 has 15 MA's), (10, 32477), (13, 32513), (14, 32516), (18, 32609), (19, 32648), (24, 32678),

Gene: Leathea_48 Start: 32547, Stop: 32861, Start Num: 5

Candidate Starts for Leathea_48:

(Start: 5 @32547 has 5 MA's), (9, 32586), (21, 32787),

Gene: Lewando_50 Start: 34105, Stop: 34425, Start Num: 5

Candidate Starts for Lewando_50:

(Start: 5 @34105 has 5 MA's), (24, 34354),

Gene: Michelle_45 Start: 31746, Stop: 32126, Start Num: 2
Candidate Starts for Michelle_45:
(Start: 2 @31746 has 6 MA's), (Start: 3 @31752 has 1 MA's), (4, 31809), (6, 31836), (12, 31890), (16, 31962), (20, 32055), (26, 32088),

Gene: Mooshroom_50 Start: 32700, Stop: 33002, Start Num: 8
Candidate Starts for Mooshroom_50:
(Start: 7 @32685 has 3 MA's), (Start: 8 @32700 has 15 MA's), (13, 32757), (15, 32805), (18, 32853), (19, 32892), (24, 32922),

Gene: Mudcat_46 Start: 33433, Stop: 33726, Start Num: 8
Candidate Starts for Mudcat_46:
(Start: 7 @33418 has 3 MA's), (Start: 8 @33433 has 15 MA's), (10, 33454), (13, 33490), (14, 33493), (18, 33586), (19, 33625), (24, 33655),

Gene: NapoleonB_49 Start: 32516, Stop: 32824, Start Num: 8
Candidate Starts for NapoleonB_49:
(Start: 7 @32501 has 3 MA's), (Start: 8 @32516 has 15 MA's), (13, 32573), (15, 32621), (17, 32654), (18, 32669), (21, 32729), (23, 32735), (30, 32780),

Gene: Nason_49 Start: 32580, Stop: 32888, Start Num: 8
Candidate Starts for Nason_49:
(Start: 7 @32565 has 3 MA's), (Start: 8 @32580 has 15 MA's), (13, 32637), (15, 32685), (17, 32718), (18, 32733), (21, 32793), (23, 32799), (30, 32844),

Gene: Renaldo_53 Start: 34414, Stop: 34734, Start Num: 5
Candidate Starts for Renaldo_53:
(Start: 5 @34414 has 5 MA's), (24, 34663),

Gene: Salk_45 Start: 31744, Stop: 32124, Start Num: 2
Candidate Starts for Salk_45:
(Start: 2 @31744 has 6 MA's), (Start: 3 @31750 has 1 MA's), (4, 31807), (6, 31834), (12, 31888), (16, 31960), (20, 32053), (26, 32086),

Gene: Shiba_44 Start: 31444, Stop: 31824, Start Num: 2
Candidate Starts for Shiba_44:
(Start: 2 @31444 has 6 MA's), (Start: 3 @31450 has 1 MA's), (4, 31507), (6, 31534), (12, 31588), (16, 31660), (20, 31753), (26, 31786),

Gene: Sloopyjoe_45 Start: 31748, Stop: 32128, Start Num: 2
Candidate Starts for Sloopyjoe_45:
(Start: 2 @31748 has 6 MA's), (Start: 3 @31754 has 1 MA's), (4, 31811), (6, 31838), (12, 31892), (16, 31964), (20, 32057), (26, 32090),

Gene: StarLord_45 Start: 31747, Stop: 32127, Start Num: 2
Candidate Starts for StarLord_45:
(Start: 2 @31747 has 6 MA's), (Start: 3 @31753 has 1 MA's), (4, 31810), (6, 31837), (12, 31891), (16, 31963), (20, 32056), (26, 32089),

Gene: Stayer_45 Start: 31744, Stop: 32124, Start Num: 2
Candidate Starts for Stayer_45:
(Start: 2 @31744 has 6 MA's), (Start: 3 @31750 has 1 MA's), (4, 31807), (6, 31834), (12, 31888), (16, 31960), (20, 32053), (26, 32086),

Gene: Tribby_49 Start: 32243, Stop: 32566, Start Num: 7

Candidate Starts for Tribby_49:

(Start: 7 @32243 has 3 MA's), (Start: 8 @32258 has 15 MA's), (10, 32279), (13, 32315), (18, 32411), (19, 32450), (24, 32480), (25, 32489), (27, 32501), (29, 32513),

Gene: Uzumaki_46 Start: 32889, Stop: 33236, Start Num: 5

Candidate Starts for Uzumaki_46:

(Start: 5 @32889 has 5 MA's), (9, 32931), (21, 33132), (22, 33135), (28, 33165),

Gene: Xenomorph_45 Start: 31991, Stop: 32299, Start Num: 8

Candidate Starts for Xenomorph_45:

(1, 31826), (Start: 7 @31976 has 3 MA's), (Start: 8 @31991 has 15 MA's), (10, 32012), (13, 32048), (18, 32144), (19, 32183), (24, 32213), (25, 32222), (27, 32234), (29, 32246),

Gene: Zeina_49 Start: 33207, Stop: 33545, Start Num: 5

Candidate Starts for Zeina_49:

(Start: 5 @33207 has 5 MA's), (9, 33249), (21, 33450), (22, 33453),