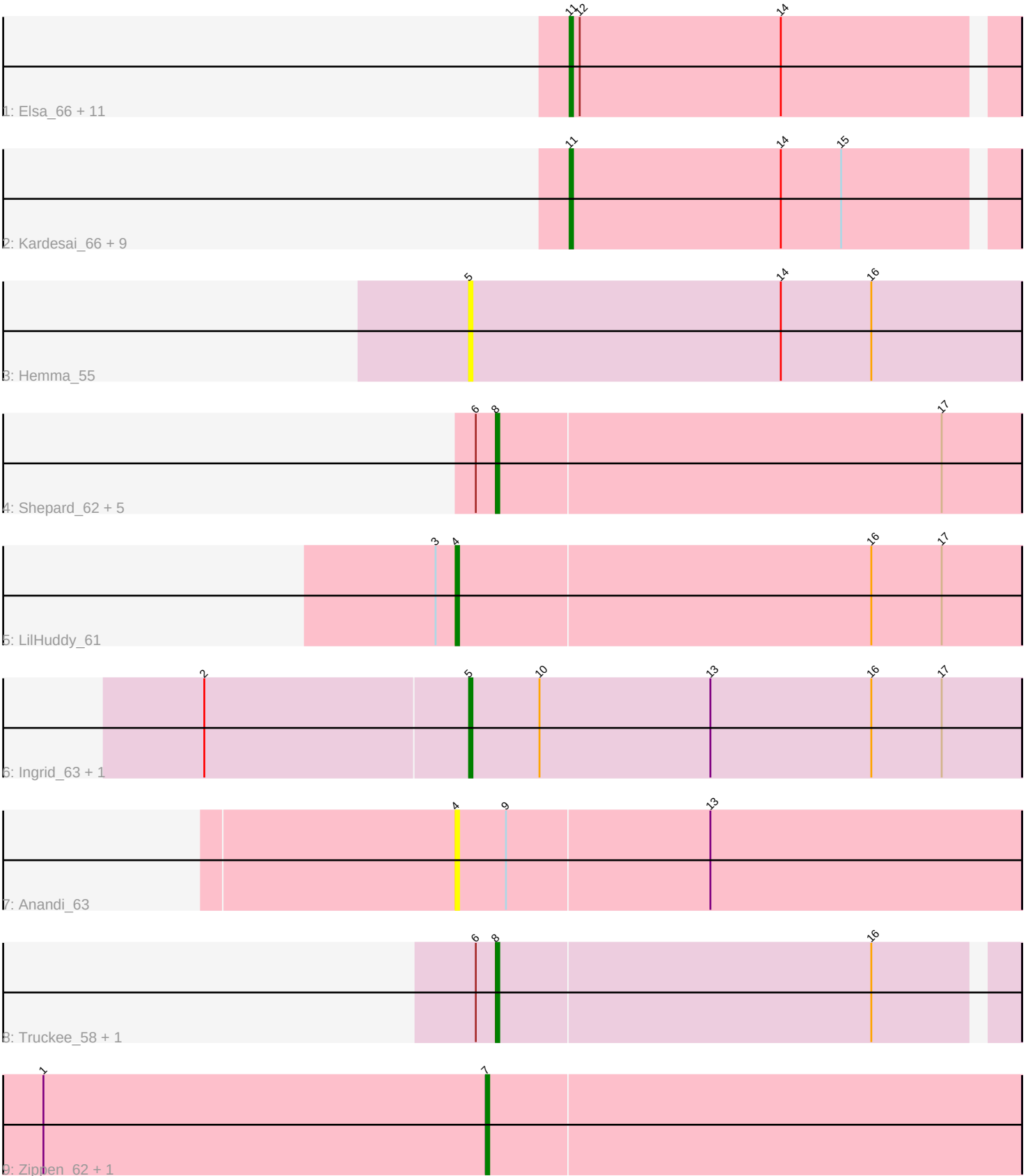




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 280640 Report

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

Pham number 280640 has 37 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Elsa_66, Arcadia_66, GoCrazy_63, Tribby_69, YoshiYama_67, Nason_66, Xenomorph_62, Cheesy_66, Correa_64, KeaneyLin_62, Bowling_67, Circum_67
- Track 2 : Kardesai_66, JEGGS_65, NapoleonB_67, Dynamite_66, Heisenberger_65, Mooshroom_67, Benllo_66, Hankly_65, Mudcat_62, BenitoAntonio_64
- Track 3 : Hemma_55
- Track 4 : Shepard_62, Tipton_61, Chlochlo_60, Bouchard_60, Tokki_65, Phaby_62
- Track 5 : LilHuddy_61
- Track 6 : Ingrid_63, Loretta_60
- Track 7 : Anandi_63
- Track 8 : Truckee_58, Makai_60
- Track 9 : Zippen_62, Inked_63

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

The start number called the most often in the published annotations is 11, it was called in 20 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia_66, BenitoAntonio_64, Benllo_66, Bowling_67, Cheesy_66, Circum_67, Correa_64, Dynamite_66, Elsa_66, GoCrazy_63, Hankly_65, Heisenberger_65, JEGGS_65, Kardesai_66, KeaneyLin_62, Mooshroom_67, Mudcat_62, NapoleonB_67, Nason_66, Tribby_69, Xenomorph_62, YoshiYama_67,

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

-

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

- Anandi_63, Bouchard_60, Chlochlo_60, Hemma_55, Ingrid_63, Inked_63, LilHuddy_61, Loretta_60, Makai_60, Phaby_62, Shepard_62, Tipton_61, Tokki_65, Truckee_58, Zippen_62,

Summary by start number:

Start 4:

- Found in 2 of 37 (5.4%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anandi_63 (AU4), LilHuddy_61 (AU2),

Start 5:

- Found in 3 of 37 (8.1%) of genes in pham
- Manual Annotations of this start: 2 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hemma_55 (AU1), Ingrid_63 (AU3), Loretta_60 (AU3),

Start 7:

- Found in 2 of 37 (5.4%) of genes in pham
- Manual Annotations of this start: 2 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Inked_63 (AU7), Zippen_62 (AU7),

Start 8:

- Found in 8 of 37 (21.6%) of genes in pham
- Manual Annotations of this start: 7 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bouchard_60 (AU2), Chlochlo_60 (AU2), Makai_60 (AU5), Phaby_62 (AU2), Shepard_62 (AU2), Tipton_61 (AU2), Tokki_65 (AU2), Truckee_58 (AU5),

Start 11:

- Found in 22 of 37 (59.5%) of genes in pham
- Manual Annotations of this start: 20 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arcadia_66 (AM), BenitoAntonio_64 (AM), Benllo_66 (AM), Bowling_67 (AM), Cheesy_66 (AM), Circum_67 (AM), Correa_64 (AM), Dynamite_66 (AM), Elsa_66 (AM), GoCrazy_63 (AM), Hankly_65 (AM), Heisenberger_65 (AM), JEGGS_65 (AM), Kardesai_66 (AM), KeaneyLin_62 (AM), Mooshroom_67 (AM), Mudcat_62 (AM), NapoleonB_67 (AM), Nason_66 (AM), Tribby_69 (AM), Xenomorph_62 (AM), YoshiYama_67 (AM),

Summary by clusters:

There are 7 clusters represented in this pham: AM, AU1, AU3, AU2, AU5, AU4, AU7,

Info for manual annotations of cluster AM:

- Start number 11 was manually annotated 20 times for cluster AM.

Info for manual annotations of cluster AU2:

- Start number 4 was manually annotated 1 time for cluster AU2.
- Start number 8 was manually annotated 5 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 5 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU5:

- Start number 8 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU7:

- Start number 7 was manually annotated 2 times for cluster AU7.

Gene Information:

Gene: Anandi_63 Start: 43194, Stop: 43361, Start Num: 4

Candidate Starts for Anandi_63:

(Start: 4 @43194 has 1 MA's), (9, 43209), (13, 43269),

Gene: Arcadia_66 Start: 42435, Stop: 42563, Start Num: 11

Candidate Starts for Arcadia_66:

(Start: 11 @42435 has 20 MA's), (12, 42438), (14, 42498),

Gene: BenitoAntonio_64 Start: 41457, Stop: 41585, Start Num: 11

Candidate Starts for BenitoAntonio_64:

(Start: 11 @41457 has 20 MA's), (14, 41520), (15, 41538),

Gene: Benllo_66 Start: 42135, Stop: 42263, Start Num: 11

Candidate Starts for Benllo_66:

(Start: 11 @42135 has 20 MA's), (14, 42198), (15, 42216),

Gene: Bouchard_60 Start: 43121, Stop: 43276, Start Num: 8

Candidate Starts for Bouchard_60:

(6, 43115), (Start: 8 @43121 has 7 MA's), (17, 43253),

Gene: Bowling_67 Start: 42424, Stop: 42552, Start Num: 11

Candidate Starts for Bowling_67:

(Start: 11 @42424 has 20 MA's), (12, 42427), (14, 42487),

Gene: Cheesy_66 Start: 41658, Stop: 41786, Start Num: 11

Candidate Starts for Cheesy_66:

(Start: 11 @41658 has 20 MA's), (12, 41661), (14, 41721),

Gene: Chlochlo_60 Start: 42647, Stop: 42802, Start Num: 8

Candidate Starts for Chlochlo_60:

(6, 42641), (Start: 8 @42647 has 7 MA's), (17, 42779),

Gene: Circum_67 Start: 42225, Stop: 42353, Start Num: 11

Candidate Starts for Circum_67:

(Start: 11 @42225 has 20 MA's), (12, 42228), (14, 42288),

Gene: Correa_64 Start: 41229, Stop: 41357, Start Num: 11

Candidate Starts for Correa_64:

(Start: 11 @41229 has 20 MA's), (12, 41232), (14, 41292),

Gene: Dynamite_66 Start: 42238, Stop: 42366, Start Num: 11

Candidate Starts for Dynamite_66:

(Start: 11 @42238 has 20 MA's), (14, 42301), (15, 42319),

Gene: Elsa_66 Start: 42435, Stop: 42563, Start Num: 11

Candidate Starts for Elsa_66:

(Start: 11 @42435 has 20 MA's), (12, 42438), (14, 42498),

Gene: GoCrazy_63 Start: 41690, Stop: 41818, Start Num: 11

Candidate Starts for GoCrazy_63:

(Start: 11 @41690 has 20 MA's), (12, 41693), (14, 41753),

Gene: Hankly_65 Start: 41306, Stop: 41434, Start Num: 11

Candidate Starts for Hankly_65:

(Start: 11 @41306 has 20 MA's), (14, 41369), (15, 41387),

Gene: Heisenberger_65 Start: 41644, Stop: 41772, Start Num: 11

Candidate Starts for Heisenberger_65:

(Start: 11 @41644 has 20 MA's), (14, 41707), (15, 41725),

Gene: Hemma_55 Start: 39719, Stop: 39883, Start Num: 5

Candidate Starts for Hemma_55:

(Start: 5 @39719 has 2 MA's), (14, 39812), (16, 39839),

Gene: Ingrid_63 Start: 42949, Stop: 43113, Start Num: 5

Candidate Starts for Ingrid_63:

(2, 42871), (Start: 5 @42949 has 2 MA's), (10, 42970), (13, 43021), (16, 43069), (17, 43090),

Gene: Inked_63 Start: 43912, Stop: 44070, Start Num: 7

Candidate Starts for Inked_63:

(1, 43780), (Start: 7 @43912 has 2 MA's),

Gene: JEGGS_65 Start: 41723, Stop: 41851, Start Num: 11

Candidate Starts for JEGGS_65:

(Start: 11 @41723 has 20 MA's), (14, 41786), (15, 41804),

Gene: Kardesai_66 Start: 42032, Stop: 42160, Start Num: 11

Candidate Starts for Kardesai_66:

(Start: 11 @42032 has 20 MA's), (14, 42095), (15, 42113),

Gene: KeaneyLin_62 Start: 41690, Stop: 41818, Start Num: 11

Candidate Starts for KeaneyLin_62:

(Start: 11 @41690 has 20 MA's), (12, 41693), (14, 41753),

Gene: LilHuddy_61 Start: 42935, Stop: 43102, Start Num: 4

Candidate Starts for LilHuddy_61:

(3, 42929), (Start: 4 @42935 has 1 MA's), (16, 43058), (17, 43079),

Gene: Loretta_60 Start: 42949, Stop: 43113, Start Num: 5

Candidate Starts for Loretta_60:

(2, 42871), (Start: 5 @42949 has 2 MA's), (10, 42970), (13, 43021), (16, 43069), (17, 43090),

Gene: Makai_60 Start: 43038, Stop: 43187, Start Num: 8

Candidate Starts for Makai_60:

(6, 43032), (Start: 8 @43038 has 7 MA's), (16, 43149),

Gene: Mooshroom_67 Start: 42032, Stop: 42160, Start Num: 11
Candidate Starts for Mooshroom_67:
(Start: 11 @42032 has 20 MA's), (14, 42095), (15, 42113),

Gene: Mudcat_62 Start: 43081, Stop: 43209, Start Num: 11
Candidate Starts for Mudcat_62:
(Start: 11 @43081 has 20 MA's), (14, 43144), (15, 43162),

Gene: NapoleonB_67 Start: 42238, Stop: 42366, Start Num: 11
Candidate Starts for NapoleonB_67:
(Start: 11 @42238 has 20 MA's), (14, 42301), (15, 42319),

Gene: Nason_66 Start: 42435, Stop: 42563, Start Num: 11
Candidate Starts for Nason_66:
(Start: 11 @42435 has 20 MA's), (12, 42438), (14, 42498),

Gene: Phaby_62 Start: 43553, Stop: 43708, Start Num: 8
Candidate Starts for Phaby_62:
(6, 43547), (Start: 8 @43553 has 7 MA's), (17, 43685),

Gene: Shepard_62 Start: 42806, Stop: 42961, Start Num: 8
Candidate Starts for Shepard_62:
(6, 42800), (Start: 8 @42806 has 7 MA's), (17, 42938),

Gene: Tipton_61 Start: 43327, Stop: 43482, Start Num: 8
Candidate Starts for Tipton_61:
(6, 43321), (Start: 8 @43327 has 7 MA's), (17, 43459),

Gene: Tokki_65 Start: 43157, Stop: 43312, Start Num: 8
Candidate Starts for Tokki_65:
(6, 43151), (Start: 8 @43157 has 7 MA's), (17, 43289),

Gene: Tribby_69 Start: 42615, Stop: 42743, Start Num: 11
Candidate Starts for Tribby_69:
(Start: 11 @42615 has 20 MA's), (12, 42618), (14, 42678),

Gene: Truckee_58 Start: 42828, Stop: 42977, Start Num: 8
Candidate Starts for Truckee_58:
(6, 42822), (Start: 8 @42828 has 7 MA's), (16, 42939),

Gene: Xenomorph_62 Start: 42106, Stop: 42234, Start Num: 11
Candidate Starts for Xenomorph_62:
(Start: 11 @42106 has 20 MA's), (12, 42109), (14, 42169),

Gene: YoshiYama_67 Start: 42675, Stop: 42803, Start Num: 11
Candidate Starts for YoshiYama_67:
(Start: 11 @42675 has 20 MA's), (12, 42678), (14, 42738),

Gene: Zippen_62 Start: 43612, Stop: 43770, Start Num: 7
Candidate Starts for Zippen_62:
(1, 43480), (Start: 7 @43612 has 2 MA's),