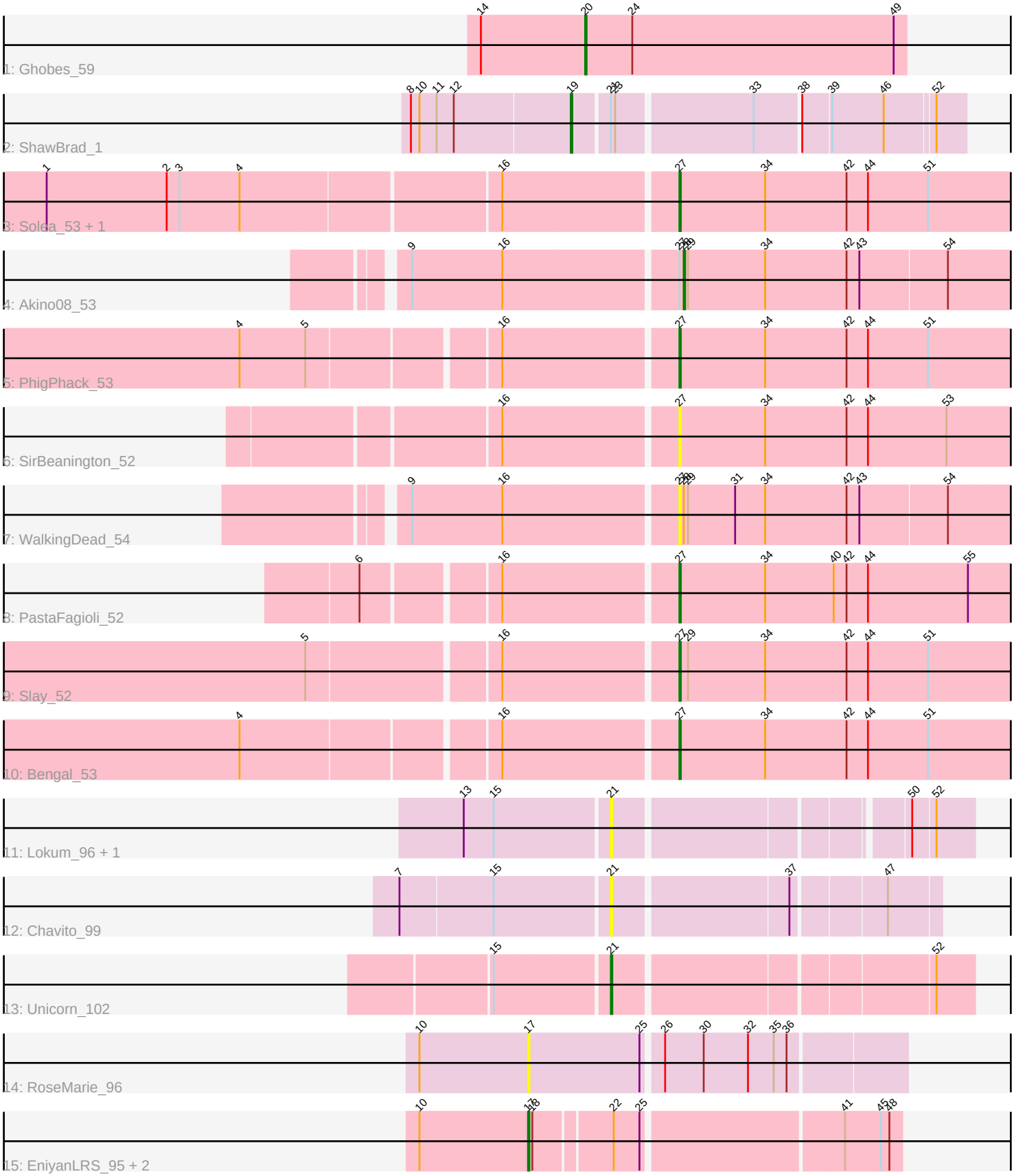
Pham 348074


1: Ghobes_59
2: ShawBrad_1
3: Solea_53 + 1
4: Akino08_53
5: PhigPhack_53
6: SirBeanington_52
7: WalkingDead_54
8: PastaFagioli_52
9: Slay_52
10: Bengal_53
11: Lokum_96 + 1
12: Chavito_99
13: Unicorn_102
14: RoseMarie_96
15: EniyanLRS_95 + 2

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 348074 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348074 has 19 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Ghobes_59
• Track 2 : ShawBrad_1
• Track 3 : Solea_53, Milomuff_52
• Track 4 : Akino08_53
• Track 5 : PhigPhack_53
• Track 6 : SirBeanington_52
• Track 7 : WalkingDead_54
• Track 8 : PastaFagioli_52
• Track 9 : Slay_52
• Track 10 : Bengal_53
• Track 11 : Lokum_96, Kheparia_96
• Track 12 : Chavito_99
• Track 13 : Unicorn_102
• Track 14 : RoseMarie_96
• Track 15 : EniyanLRS_95, MaryV_100, Azrael100_97

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

The start number called the most often in the published annotations is 27, it was called in 5 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bengal_53, Milomuff_52, PastaFagioli_52, PhigPhack_53, SirBeanington_52, Slay_52, Solea_53, WalkingDead_54,

Genes that have the "Most Annotated" start but do not call it:
• Akino08_53,

Genes that do not have the "Most Annotated" start:
• Azrael100_97, Chavito_99, EniyanLRS_95, Ghobes_59, Kheparia_96, Lokum_96, MaryV_100, RoseMarie_96, ShawBrad_1, Unicorn_102,

Summary by start number:

Start 17:
• Found in 4 of 19 (21.1%) of genes in pham
• Manual Annotations of this start: 3 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azrael100_97 (V), EniyanLRS_95 (V), MaryV_100 (V), RoseMarie_96 (M1),

Start 19:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ShawBrad_1 (DN1),

Start 20:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ghobes_59 (DA),

Start 21:
• Found in 5 of 19 (26.3%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Chavito_99 (K1), Kheparia_96 (K1), Lokum_96 (K1), Unicorn_102 (K6),

Start 27:
• Found in 9 of 19 (47.4%) of genes in pham
• Manual Annotations of this start: 5 of 12
• Called 88.9% of time when present
• Phage (with cluster) where this start called: Bengal_53 (EB), Milomuff_52 (EB), PastaFagioli_52 (EB), PhigPhack_53 (EB), SirBeanington_52 (EB), Slay_52 (EB), Solea_53 (EB), WalkingDead_54 (EB),

Start 28:
• Found in 2 of 19 (10.5%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Akino08_53 (EB),

Summary by clusters:

There are 7 clusters represented in this pham: DA, K1, DN1, K6, V, M1, EB,

Info for manual annotations of cluster DA:
•Start number 20 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster DN1:
•Start number 19 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster EB:
•Start number 27 was manually annotated 5 times for cluster EB.
•Start number 28 was manually annotated 1 time for cluster EB.

Info for manual annotations of cluster K6:
•Start number 21 was manually annotated 1 time for cluster K6.

Info for manual annotations of cluster V:
•Start number 17 was manually annotated 3 times for cluster V.

Gene Information:

Gene: Akino08_53 Start: 36817, Stop: 37083, Start Num: 28
Candidate Starts for Akino08_53:
(9, 36634), (16, 36697), (Start: 27 @36814 has 5 MA's), (Start: 28 @36817 has 1 MA's), (29, 36820), (34, 36874), (42, 36931), (43, 36940), (54, 37000),

Gene: Azrael100_97 Start: 57788, Stop: 58030, Start Num: 17
Candidate Starts for Azrael100_97:
(10, 57713), (Start: 17 @57788 has 3 MA's), (18, 57791), (22, 57842), (25, 57860), (41, 57992), (45, 58016), (48, 58022),

Gene: Bengal_53 Start: 34800, Stop: 35081, Start Num: 27
Candidate Starts for Bengal_53:
(4, 34515), (16, 34683), (Start: 27 @34800 has 5 MA's), (34, 34860), (42, 34917), (44, 34932), (51, 34974),

Gene: Chavito_99 Start: 61820, Stop: 62032, Start Num: 21
Candidate Starts for Chavito_99:
(7, 61682), (15, 61745), (Start: 21 @61820 has 1 MA's), (37, 61937), (47, 61997),

Gene: EniyanLRS_95 Start: 57783, Stop: 58025, Start Num: 17
Candidate Starts for EniyanLRS_95:
(10, 57708), (Start: 17 @57783 has 3 MA's), (18, 57786), (22, 57837), (25, 57855), (41, 57987), (45, 58011), (48, 58017),

Gene: Ghobes_59 Start: 45003, Stop: 45227, Start Num: 20
Candidate Starts for Ghobes_59:
(14, 44931), (Start: 20 @45003 has 1 MA's), (24, 45036), (49, 45219),

Gene: Kheparia_96 Start: 56643, Stop: 56870, Start Num: 21
Candidate Starts for Kheparia_96:
(13, 56547), (15, 56568), (Start: 21 @56643 has 1 MA's), (50, 56829), (52, 56844),

Gene: Lokum_96 Start: 59402, Stop: 59629, Start Num: 21
Candidate Starts for Lokum_96:
(13, 59306), (15, 59327), (Start: 21 @59402 has 1 MA's), (50, 59588), (52, 59603),

Gene: MaryV_100 Start: 58194, Stop: 58436, Start Num: 17
Candidate Starts for MaryV_100:
(10, 58119), (Start: 17 @58194 has 3 MA's), (18, 58197), (22, 58248), (25, 58266), (41, 58398), (45, 58422), (48, 58428),

Gene: Milomuff_52 Start: 34653, Stop: 34934, Start Num: 27
Candidate Starts for Milomuff_52:
(1, 34227), (2, 34311), (3, 34320), (4, 34362), (16, 34536), (Start: 27 @34653 has 5 MA's), (34, 34713), (42, 34770), (44, 34785), (51, 34827),

Gene: PastaFagioli_52 Start: 35219, Stop: 35500, Start Num: 27
Candidate Starts for PastaFagioli_52:
(6, 35015), (16, 35102), (Start: 27 @35219 has 5 MA's), (34, 35279), (40, 35327), (42, 35336), (44, 35351), (55, 35420),

Gene: PhigPhack_53 Start: 34661, Stop: 34942, Start Num: 27
Candidate Starts for PhigPhack_53:
(4, 34376), (5, 34421), (16, 34544), (Start: 27 @34661 has 5 MA's), (34, 34721), (42, 34778), (44, 34793), (51, 34835),

Gene: RoseMarie_96 Start: 57817, Stop: 58068, Start Num: 17
Candidate Starts for RoseMarie_96:
(10, 57742), (Start: 17 @57817 has 3 MA's), (25, 57895), (26, 57907), (30, 57934), (32, 57964), (35, 57982), (36, 57991),

Gene: ShawBrad_1 Start: 117, Stop: 371, Start Num: 19
Candidate Starts for ShawBrad_1:
(8, 9), (10, 15), (11, 27), (12, 39), (Start: 19 @117 has 1 MA's), (Start: 21 @141 has 1 MA's), (23, 144), (33, 234), (38, 264), (39, 282), (46, 318), (52, 351),

Gene: SirBeanington_52 Start: 34972, Stop: 35253, Start Num: 27
Candidate Starts for SirBeanington_52:
(16, 34855), (Start: 27 @34972 has 5 MA's), (34, 35032), (42, 35089), (44, 35104), (53, 35158),

Gene: Slay_52 Start: 35047, Stop: 35328, Start Num: 27
Candidate Starts for Slay_52:
(5, 34804), (16, 34930), (Start: 27 @35047 has 5 MA's), (29, 35053), (34, 35107), (42, 35164), (44, 35179), (51, 35221),

Gene: Solea_53 Start: 34653, Stop: 34934, Start Num: 27
Candidate Starts for Solea_53:
(1, 34227), (2, 34311), (3, 34320), (4, 34362), (16, 34536), (Start: 27 @34653 has 5 MA's), (34, 34713), (42, 34770), (44, 34785), (51, 34827),

Gene: Unicorn_102 Start: 60924, Stop: 61157, Start Num: 21
Candidate Starts for Unicorn_102:
(15, 60849), (Start: 21 @60924 has 1 MA's), (52, 61131),

Gene: WalkingDead_54 Start: 36540, Stop: 36818, Start Num: 27
Candidate Starts for WalkingDead_54:
(9, 36360), (16, 36423), (Start: 27 @36540 has 5 MA's), (Start: 28 @36543 has 1 MA's), (29, 36546), (31, 36579), (34, 36600), (42, 36657), (43, 36666), (54, 36726),