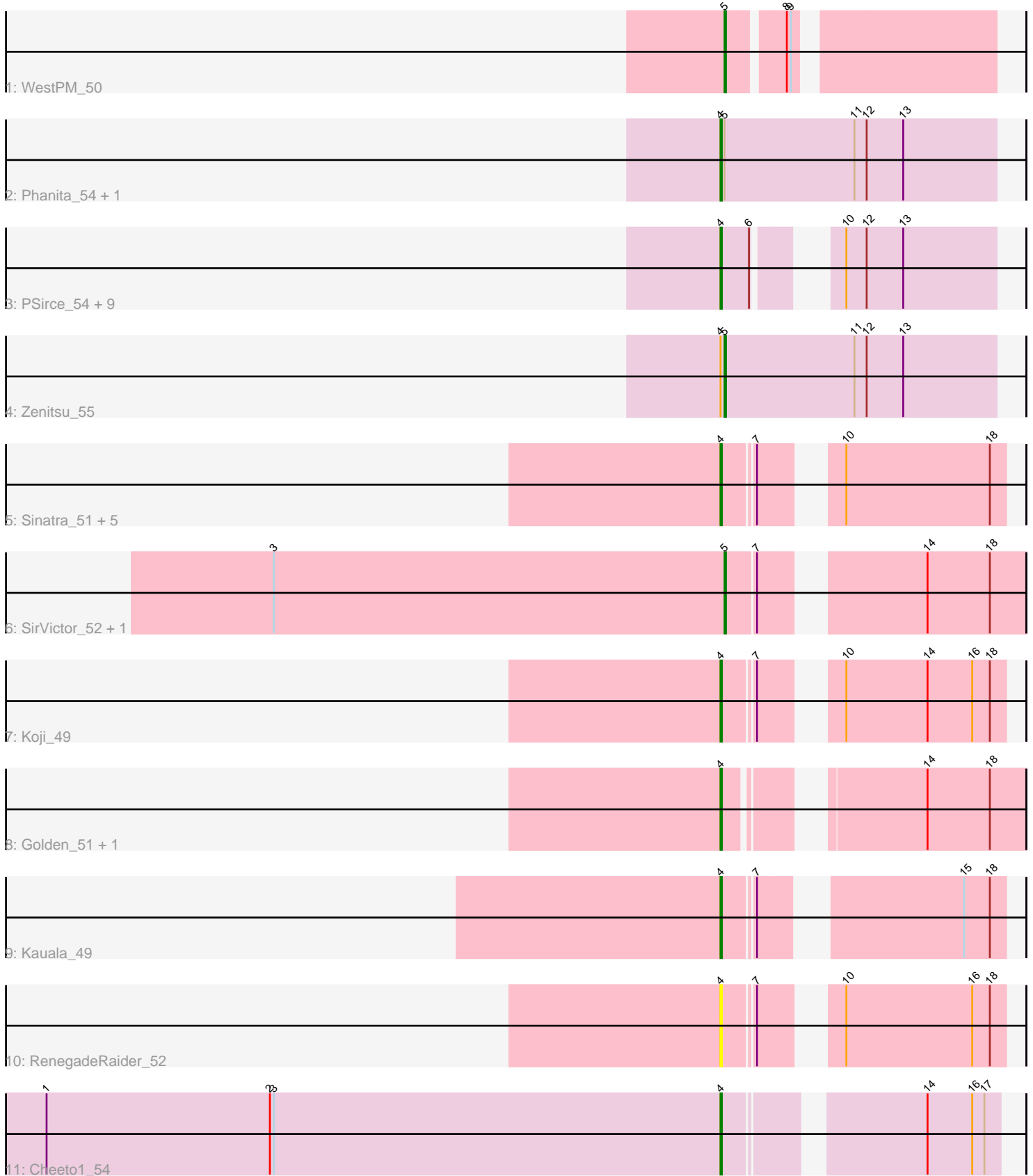


Pham 214538



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 214538 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214538 has 28 members, 4 are drafts.

Phages represented in each track:

- Track 1 : WestPM_50
- Track 2 : Phanita_54, MCubed_55
- Track 3 : PSirce_54, Glamour_54, Andromedas_55, ChikPic_55, Shamu_55, Eleri_55, ColaCorta_55, Sansa_53, Saratos_55, Finny_56
- Track 4 : Zenitsu_55
- Track 5 : Sinatra_51, Bustleton_50, PrincePhergus_50, Pherbot_50, Jingles_49, BouleyBill_49
- Track 6 : SirVictor_52, Guetzie_52
- Track 7 : Koji_49
- Track 8 : Golden_51, Lucky3_51
- Track 9 : Kauala_49
- Track 10 : RenegadeRaider_52
- Track 11 : Cheeto1_54

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

The start number called the most often in the published annotations is 4, it was called in 20 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Andromedas_55, BouleyBill_49, Bustleton_50, Cheeto1_54, ChikPic_55, ColaCorta_55, Eleri_55, Finny_56, Glamour_54, Golden_51, Jingles_49, Kauala_49, Koji_49, Lucky3_51, MCubed_55, PSirce_54, Phanita_54, Pherbot_50, PrincePhergus_50, RenegadeRaider_52, Sansa_53, Saratos_55, Shamu_55, Sinatra_51,

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

- Zenitsu_55,

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

- Guetzie_52, SirVictor_52, WestPM_50,

Summary by start number:

Start 4:

- Found in 25 of 28 (89.3%) of genes in pham
- Manual Annotations of this start: 20 of 24
- Called 96.0% of time when present
- Phage (with cluster) where this start called: Andromedas_55 (EA2), BouleyBill_49 (EA4), Bustleton_50 (EA4), Cheeto1_54 (EA9), ChikPic_55 (EA2), ColaCorta_55 (EA2), Eleri_55 (EA2), Finny_56 (EA2), Glamour_54 (EA2), Golden_51 (EA4), Jingles_49 (EA4), Kauala_49 (EA4), Koji_49 (EA4), Lucky3_51 (EA4), MCubed_55 (EA2), PSirce_54 (EA2), Phanita_54 (EA2), Pherbot_50 (EA4), PrincePhergus_50 (EA4), RenegadeRaider_52 (EA4), Sansa_53 (EA2), Saratos_55 (EA2), Shamu_55 (EA2), Sinatra_51 (EA4),

Start 5:

- Found in 6 of 28 (21.4%) of genes in pham
- Manual Annotations of this start: 4 of 24
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Guetzie_52 (EA4), SirVictor_52 (EA4), WestPM_50 (EA11), Zenitsu_55 (EA2),

Summary by clusters:

There are 4 clusters represented in this pham: EA9, EA2, EA11, EA4,

Info for manual annotations of cluster EA11:

- Start number 5 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 4 was manually annotated 10 times for cluster EA2.
- Start number 5 was manually annotated 1 time for cluster EA2.

Info for manual annotations of cluster EA4:

- Start number 4 was manually annotated 9 times for cluster EA4.
- Start number 5 was manually annotated 2 times for cluster EA4.

Info for manual annotations of cluster EA9:

- Start number 4 was manually annotated 1 time for cluster EA9.

Gene Information:

Gene: Andromedas_55 Start: 37029, Stop: 36862, Start Num: 4

Candidate Starts for Andromedas_55:

(Start: 4 @37029 has 20 MA's), (6, 37008), (10, 36972), (12, 36957), (13, 36930),

Gene: BouleyBill_49 Start: 35415, Stop: 35239, Start Num: 4

Candidate Starts for BouleyBill_49:

(Start: 4 @35415 has 20 MA's), (7, 35394), (10, 35355), (18, 35250),

Gene: Bustleton_50 Start: 35404, Stop: 35228, Start Num: 4

Candidate Starts for Bustleton_50:

(Start: 4 @35404 has 20 MA's), (7, 35383), (10, 35344), (18, 35239),

Gene: Cheeto1_54 Start: 37020, Stop: 36841, Start Num: 4
Candidate Starts for Cheeto1_54:
(1, 37518), (2, 37353), (3, 37350), (Start: 4 @37020 has 20 MA's), (14, 36894), (16, 36861), (17, 36852),

Gene: ChikPic_55 Start: 36838, Stop: 36671, Start Num: 4
Candidate Starts for ChikPic_55:
(Start: 4 @36838 has 20 MA's), (6, 36817), (10, 36781), (12, 36766), (13, 36739),

Gene: ColaCorta_55 Start: 37029, Stop: 36862, Start Num: 4
Candidate Starts for ColaCorta_55:
(Start: 4 @37029 has 20 MA's), (6, 37008), (10, 36972), (12, 36957), (13, 36930),

Gene: Eleri_55 Start: 36874, Stop: 36707, Start Num: 4
Candidate Starts for Eleri_55:
(Start: 4 @36874 has 20 MA's), (6, 36853), (10, 36817), (12, 36802), (13, 36775),

Gene: Finny_56 Start: 36822, Stop: 36655, Start Num: 4
Candidate Starts for Finny_56:
(Start: 4 @36822 has 20 MA's), (6, 36801), (10, 36765), (12, 36750), (13, 36723),

Gene: Glamour_54 Start: 36732, Stop: 36565, Start Num: 4
Candidate Starts for Glamour_54:
(Start: 4 @36732 has 20 MA's), (6, 36711), (10, 36675), (12, 36660), (13, 36633),

Gene: Golden_51 Start: 35886, Stop: 35701, Start Num: 4
Candidate Starts for Golden_51:
(Start: 4 @35886 has 20 MA's), (14, 35772), (18, 35727),

Gene: Guetzie_52 Start: 35975, Stop: 35784, Start Num: 5
Candidate Starts for Guetzie_52:
(3, 36308), (Start: 5 @35975 has 4 MA's), (7, 35954), (14, 35855), (18, 35810),

Gene: Jingles_49 Start: 35502, Stop: 35326, Start Num: 4
Candidate Starts for Jingles_49:
(Start: 4 @35502 has 20 MA's), (7, 35481), (10, 35442), (18, 35337),

Gene: Kauala_49 Start: 35603, Stop: 35430, Start Num: 4
Candidate Starts for Kauala_49:
(Start: 4 @35603 has 20 MA's), (7, 35582), (15, 35459), (18, 35441),

Gene: Koji_49 Start: 35596, Stop: 35420, Start Num: 4
Candidate Starts for Koji_49:
(Start: 4 @35596 has 20 MA's), (7, 35575), (10, 35536), (14, 35476), (16, 35443), (18, 35431),

Gene: Lucky3_51 Start: 35886, Stop: 35701, Start Num: 4
Candidate Starts for Lucky3_51:
(Start: 4 @35886 has 20 MA's), (14, 35772), (18, 35727),

Gene: MCubed_55 Start: 36889, Stop: 36686, Start Num: 4
Candidate Starts for MCubed_55:
(Start: 4 @36889 has 20 MA's), (Start: 5 @36886 has 4 MA's), (11, 36790), (12, 36781), (13, 36754),

Gene: PSirce_54 Start: 37028, Stop: 36861, Start Num: 4
Candidate Starts for PSirce_54:
(Start: 4 @37028 has 20 MA's), (6, 37007), (10, 36971), (12, 36956), (13, 36929),

Gene: Phanita_54 Start: 36801, Stop: 36598, Start Num: 4
Candidate Starts for Phanita_54:
(Start: 4 @36801 has 20 MA's), (Start: 5 @36798 has 4 MA's), (11, 36702), (12, 36693), (13, 36666),

Gene: Pherbot_50 Start: 35391, Stop: 35215, Start Num: 4
Candidate Starts for Pherbot_50:
(Start: 4 @35391 has 20 MA's), (7, 35370), (10, 35331), (18, 35226),

Gene: PrincePhergus_50 Start: 35407, Stop: 35231, Start Num: 4
Candidate Starts for PrincePhergus_50:
(Start: 4 @35407 has 20 MA's), (7, 35386), (10, 35347), (18, 35242),

Gene: RenegadeRaider_52 Start: 35301, Stop: 35125, Start Num: 4
Candidate Starts for RenegadeRaider_52:
(Start: 4 @35301 has 20 MA's), (7, 35280), (10, 35241), (16, 35148), (18, 35136),

Gene: Sansa_53 Start: 36814, Stop: 36647, Start Num: 4
Candidate Starts for Sansa_53:
(Start: 4 @36814 has 20 MA's), (6, 36793), (10, 36757), (12, 36742), (13, 36715),

Gene: Saratos_55 Start: 36858, Stop: 36691, Start Num: 4
Candidate Starts for Saratos_55:
(Start: 4 @36858 has 20 MA's), (6, 36837), (10, 36801), (12, 36786), (13, 36759),

Gene: Shamu_55 Start: 36747, Stop: 36580, Start Num: 4
Candidate Starts for Shamu_55:
(Start: 4 @36747 has 20 MA's), (6, 36726), (10, 36690), (12, 36675), (13, 36648),

Gene: Sinatra_51 Start: 35402, Stop: 35226, Start Num: 4
Candidate Starts for Sinatra_51:
(Start: 4 @35402 has 20 MA's), (7, 35381), (10, 35342), (18, 35237),

Gene: SirVictor_52 Start: 35975, Stop: 35784, Start Num: 5
Candidate Starts for SirVictor_52:
(3, 36308), (Start: 5 @35975 has 4 MA's), (7, 35954), (14, 35855), (18, 35810),

Gene: WestPM_50 Start: 35445, Stop: 35272, Start Num: 5
Candidate Starts for WestPM_50:
(Start: 5 @35445 has 4 MA's), (8, 35409), (9, 35406),

Gene: Zenitsu_55 Start: 36891, Stop: 36691, Start Num: 5
Candidate Starts for Zenitsu_55:
(Start: 4 @36894 has 20 MA's), (Start: 5 @36891 has 4 MA's), (11, 36795), (12, 36786), (13, 36759),