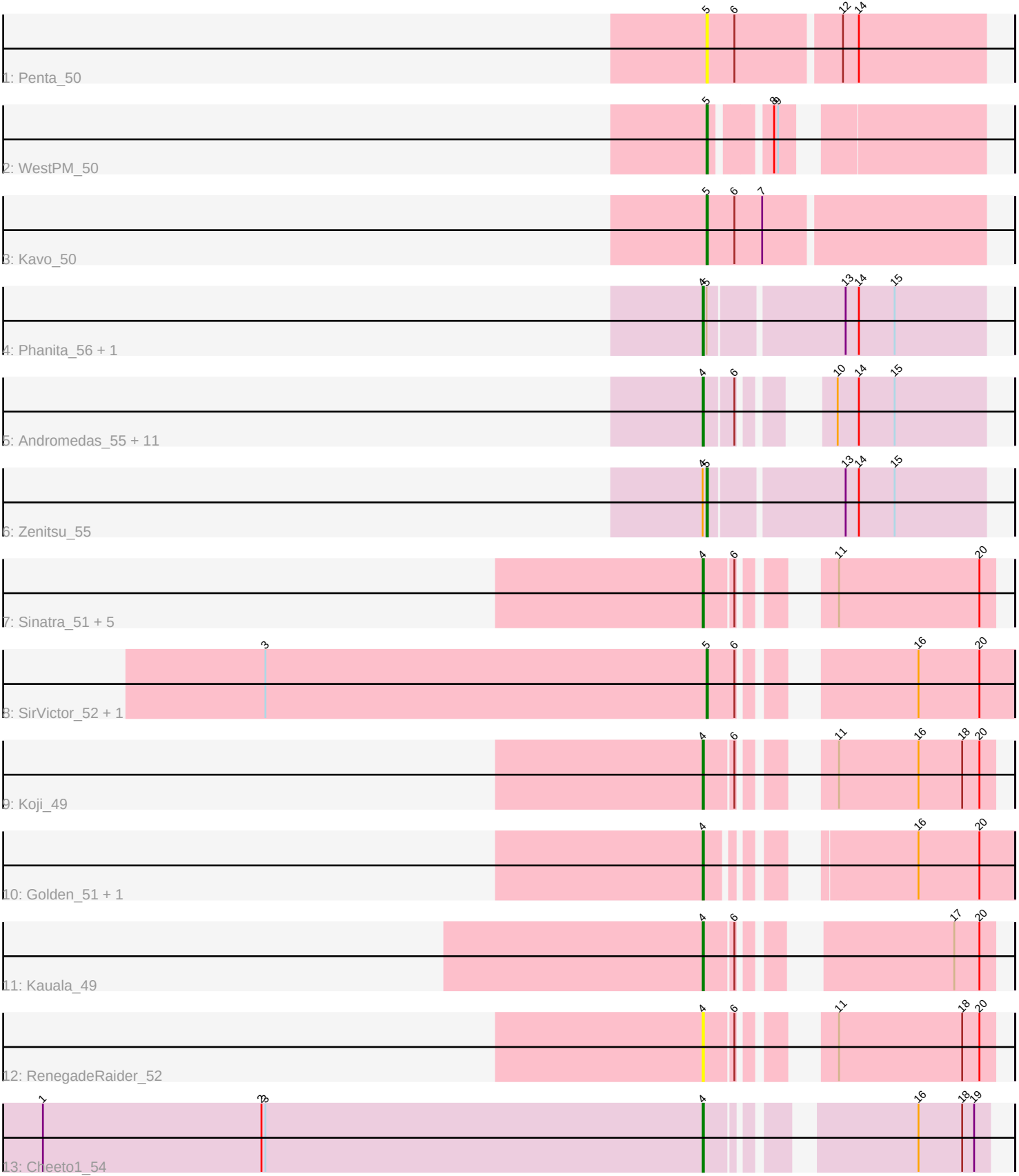


Pham 325450



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 325450 Report

This analysis was run 09/05/26 on database version 662.

Pham number 325450 has 32 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Penta_50
- Track 2 : WestPM_50
- Track 3 : Kavo_50
- Track 4 : Phanita_56, MCubed_55
- Track 5 : Andromedas_55, ChikPic_55, Glamour_54, Eleri_55, ColaCorta_55, Shamu_55, Orpington_55, Sansa_53, PSirce_55, Saratos_55, Finny_56, Xebius_55
- Track 6 : Zenitsu_55
- Track 7 : Sinatra_51, Jingles_51, Bustleton_50, PrincePhergus_50, Pherbot_50, BouleyBill_49
- Track 8 : SirVictor_52, Guetzie_52
- Track 9 : Koji_49
- Track 10 : Golden_51, Lucky3_51
- Track 11 : Kauala_49
- Track 12 : RenegadeRaider_52
- Track 13 : 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 23 of the 28 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_51, Kauala_49, Koji_49, Lucky3_51, MCubed_55, Orpington_55, PSirce_55, Phanita_56, Pherbot_50, PrincePhergus_50, RenegadeRaider_52, Sansa_53, Saratos_55, Shamu_55, Sinatra_51, Xebius_55,

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, Kavo_50, Penta_50, SirVictor_52, WestPM_50,

Summary by start number:

Start 4:

- Found in 27 of 32 (84.4%) of genes in pham
- Manual Annotations of this start: 23 of 28
- Called 96.3% 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_51 (EA4), Kauala_49 (EA4), Koji_49 (EA4), Lucky3_51 (EA4), MCubed_55 (EA2), Orpington_55 (EA2), PSirce_55 (EA2), Phanita_56 (EA2), Pherbot_50 (EA4), PrincePhergus_50 (EA4), RenegadeRaider_52 (EA4), Sansa_53 (EA2), Saratos_55 (EA2), Shamu_55 (EA2), Sinatra_51 (EA4), Xebius_55 (EA2),

Start 5:

- Found in 8 of 32 (25.0%) of genes in pham
- Manual Annotations of this start: 5 of 28
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Guetzie_52 (EA4), Kavo_50 (EA11), Penta_50 (EA11), 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 2 times for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 4 was manually annotated 12 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 10 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 23 MA's), (6, 37008), (10, 36972), (14, 36957), (15, 36930),

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

Candidate Starts for BouleyBill_49:

(Start: 4 @35415 has 23 MA's), (6, 35394), (11, 35355), (20, 35250),

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

Candidate Starts for Bustleton_50:

(Start: 4 @35404 has 23 MA's), (6, 35383), (11, 35344), (20, 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 23 MA's), (16, 36894), (18, 36861), (19, 36852),

Gene: ChikPic_55 Start: 36838, Stop: 36671, Start Num: 4

Candidate Starts for ChikPic_55:

(Start: 4 @36838 has 23 MA's), (6, 36817), (10, 36781), (14, 36766), (15, 36739),

Gene: ColaCorta_55 Start: 37029, Stop: 36862, Start Num: 4

Candidate Starts for ColaCorta_55:

(Start: 4 @37029 has 23 MA's), (6, 37008), (10, 36972), (14, 36957), (15, 36930),

Gene: Eleri_55 Start: 36874, Stop: 36707, Start Num: 4

Candidate Starts for Eleri_55:

(Start: 4 @36874 has 23 MA's), (6, 36853), (10, 36817), (14, 36802), (15, 36775),

Gene: Finny_56 Start: 36822, Stop: 36655, Start Num: 4

Candidate Starts for Finny_56:

(Start: 4 @36822 has 23 MA's), (6, 36801), (10, 36765), (14, 36750), (15, 36723),

Gene: Glamour_54 Start: 36732, Stop: 36565, Start Num: 4

Candidate Starts for Glamour_54:

(Start: 4 @36732 has 23 MA's), (6, 36711), (10, 36675), (14, 36660), (15, 36633),

Gene: Golden_51 Start: 35886, Stop: 35701, Start Num: 4

Candidate Starts for Golden_51:

(Start: 4 @35886 has 23 MA's), (16, 35772), (20, 35727),

Gene: Guetzie_52 Start: 35975, Stop: 35784, Start Num: 5

Candidate Starts for Guetzie_52:

(3, 36308), (Start: 5 @35975 has 5 MA's), (6, 35954), (16, 35855), (20, 35810),

Gene: Jingles_51 Start: 35502, Stop: 35326, Start Num: 4

Candidate Starts for Jingles_51:

(Start: 4 @35502 has 23 MA's), (6, 35481), (11, 35442), (20, 35337),

Gene: Kauala_49 Start: 35603, Stop: 35430, Start Num: 4

Candidate Starts for Kauala_49:

(Start: 4 @35603 has 23 MA's), (6, 35582), (17, 35459), (20, 35441),

Gene: Kavo_50 Start: 35277, Stop: 35074, Start Num: 5

Candidate Starts for Kavo_50:

(Start: 5 @35277 has 5 MA's), (6, 35256), (7, 35235),

Gene: Koji_49 Start: 35596, Stop: 35420, Start Num: 4

Candidate Starts for Koji_49:

(Start: 4 @35596 has 23 MA's), (6, 35575), (11, 35536), (16, 35476), (18, 35443), (20, 35431),

Gene: Lucky3_51 Start: 35886, Stop: 35701, Start Num: 4

Candidate Starts for Lucky3_51:

(Start: 4 @35886 has 23 MA's), (16, 35772), (20, 35727),

Gene: MCubed_55 Start: 36889, Stop: 36686, Start Num: 4

Candidate Starts for MCubed_55:

(Start: 4 @36889 has 23 MA's), (Start: 5 @36886 has 5 MA's), (13, 36790), (14, 36781), (15, 36754),

Gene: Orpington_55 Start: 36747, Stop: 36580, Start Num: 4

Candidate Starts for Orpington_55:

(Start: 4 @36747 has 23 MA's), (6, 36726), (10, 36690), (14, 36675), (15, 36648),

Gene: PSirce_55 Start: 37028, Stop: 36861, Start Num: 4

Candidate Starts for PSirce_55:

(Start: 4 @37028 has 23 MA's), (6, 37007), (10, 36971), (14, 36956), (15, 36929),

Gene: Penta_50 Start: 35285, Stop: 35082, Start Num: 5

Candidate Starts for Penta_50:

(Start: 5 @35285 has 5 MA's), (6, 35264), (12, 35189), (14, 35177),

Gene: Phanita_56 Start: 36801, Stop: 36598, Start Num: 4

Candidate Starts for Phanita_56:

(Start: 4 @36801 has 23 MA's), (Start: 5 @36798 has 5 MA's), (13, 36702), (14, 36693), (15, 36666),

Gene: Pherbot_50 Start: 35391, Stop: 35215, Start Num: 4

Candidate Starts for Pherbot_50:

(Start: 4 @35391 has 23 MA's), (6, 35370), (11, 35331), (20, 35226),

Gene: PrincePhergus_50 Start: 35407, Stop: 35231, Start Num: 4

Candidate Starts for PrincePhergus_50:

(Start: 4 @35407 has 23 MA's), (6, 35386), (11, 35347), (20, 35242),

Gene: RenegadeRaider_52 Start: 35301, Stop: 35125, Start Num: 4

Candidate Starts for RenegadeRaider_52:

(Start: 4 @35301 has 23 MA's), (6, 35280), (11, 35241), (18, 35148), (20, 35136),

Gene: Sansa_53 Start: 36814, Stop: 36647, Start Num: 4

Candidate Starts for Sansa_53:

(Start: 4 @36814 has 23 MA's), (6, 36793), (10, 36757), (14, 36742), (15, 36715),

Gene: Saratos_55 Start: 36858, Stop: 36691, Start Num: 4

Candidate Starts for Saratos_55:

(Start: 4 @36858 has 23 MA's), (6, 36837), (10, 36801), (14, 36786), (15, 36759),

Gene: Shamu_55 Start: 36747, Stop: 36580, Start Num: 4

Candidate Starts for Shamu_55:

(Start: 4 @36747 has 23 MA's), (6, 36726), (10, 36690), (14, 36675), (15, 36648),

Gene: Sinatra_51 Start: 35402, Stop: 35226, Start Num: 4

Candidate Starts for Sinatra_51:

(Start: 4 @35402 has 23 MA's), (6, 35381), (11, 35342), (20, 35237),

Gene: SirVictor_52 Start: 35975, Stop: 35784, Start Num: 5

Candidate Starts for SirVictor_52:

(3, 36308), (Start: 5 @35975 has 5 MA's), (6, 35954), (16, 35855), (20, 35810),

Gene: WestPM_50 Start: 35445, Stop: 35272, Start Num: 5

Candidate Starts for WestPM_50:

(Start: 5 @35445 has 5 MA's), (8, 35409), (9, 35406),

Gene: Xebius_55 Start: 36861, Stop: 36694, Start Num: 4

Candidate Starts for Xebius_55:

(Start: 4 @36861 has 23 MA's), (6, 36840), (10, 36804), (14, 36789), (15, 36762),

Gene: Zenitsu_55 Start: 36891, Stop: 36691, Start Num: 5

Candidate Starts for Zenitsu_55:

(Start: 4 @36894 has 23 MA's), (Start: 5 @36891 has 5 MA's), (13, 36795), (14, 36786), (15, 36759),