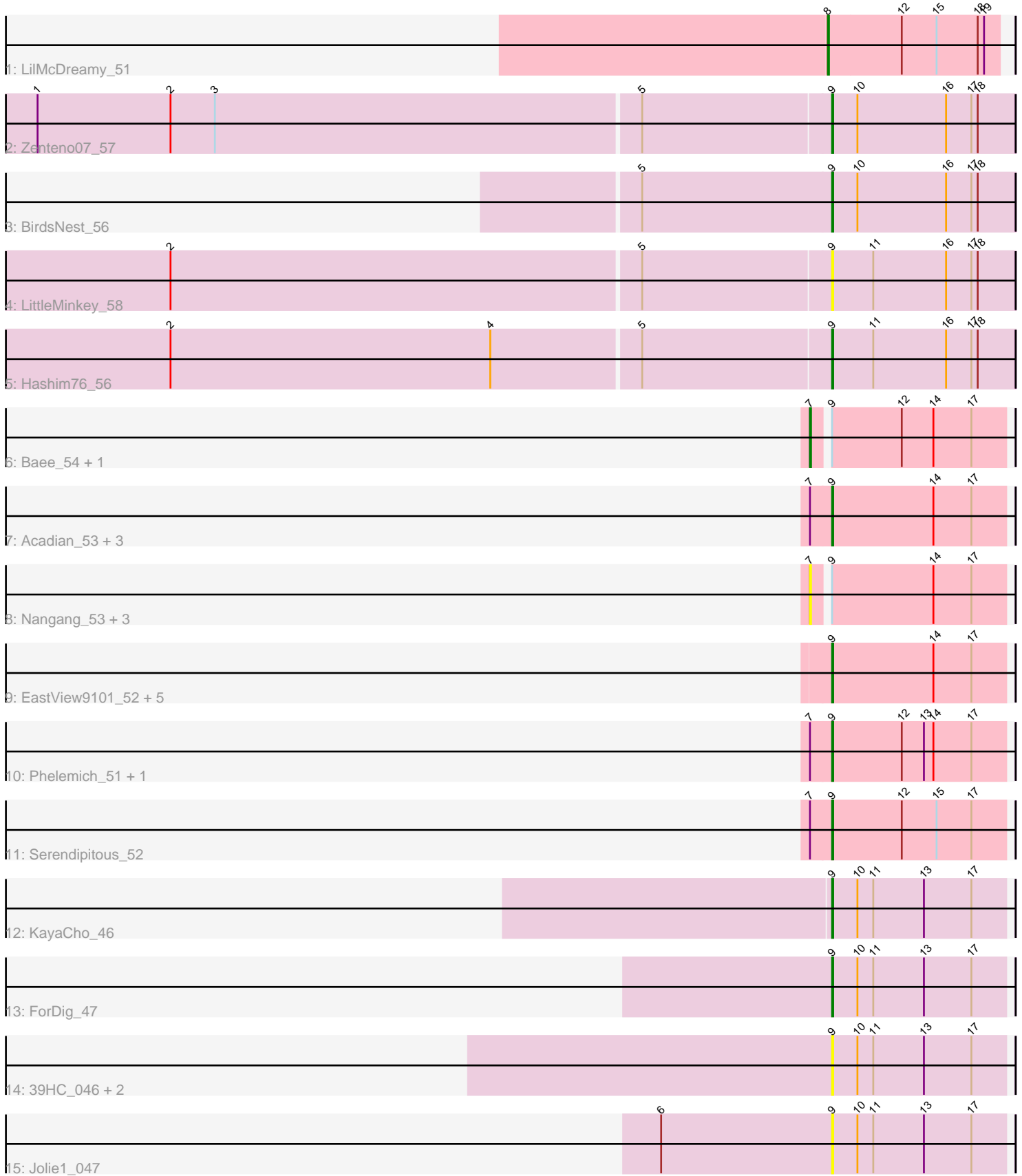


Pham 305221



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 305221 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305221 has 30 members, 13 are drafts.

Phages represented in each track:

- Track 1 : LilMcDreamy_51
- Track 2 : Zenteno07_57
- Track 3 : BirdsNest_56
- Track 4 : LittleMinkey_58
- Track 5 : Hashim76_56
- Track 6 : Bae_54, Rich_53
- Track 7 : Acadian_53, KarasumaRum_53, StinkyVeggy_53, Mysterious_51
- Track 8 : Nangang_53, DigitDog_53, Nehemiah_52, Shenyu_53
- Track 9 : EastView9101_52, Donny_54, Reccee_53, Suigeneris_54, SirJeffery_52, Rita130_52
- Track 10 : Phelemich_51, Reprobate_52
- Track 11 : Serendipitous_52
- Track 12 : KayaCho_46
- Track 13 : ForDig_47
- Track 14 : 39HC_046, 40BC_046, Hosp_045
- Track 15 : Jolie1_047

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

The start number called the most often in the published annotations is 9, it was called in 14 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 39HC_046, 40BC_046, Acadian_53, BirdsNest_56, Donny_54, EastView9101_52, ForDig_47, Hashim76_56, Hosp_045, Jolie1_047, KarasumaRum_53, KayaCho_46, LittleMinkey_58, Mysterious_51, Phelemich_51, Reccee_53, Reprobate_52, Rita130_52, Serendipitous_52, SirJeffery_52, StinkyVeggy_53, Suigeneris_54, Zenteno07_57,

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

- Bae_54, DigitDog_53, Nangang_53, Nehemiah_52, Rich_53, Shenyu_53,

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

- LilMcDreamy_51,

Summary by start number:

Start 7:

- Found in 13 of 30 (43.3%) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 46.2% of time when present
- Phage (with cluster) where this start called: Bae_54 (B5), DigitDog_53 (B5), Nangang_53 (B5), Nehemiah_52 (B5), Rich_53 (B5), Shenyu_53 (B5),

Start 8:

- Found in 1 of 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilMcDreamy_51 (B12),

Start 9:

- Found in 29 of 30 (96.7%) of genes in pham
- Manual Annotations of this start: 14 of 17
- Called 79.3% of time when present
- Phage (with cluster) where this start called: 39HC_046 (B6), 40BC_046 (B6), Acadian_53 (B5), BirdsNest_56 (B13), Donny_54 (B5), EastView9101_52 (B5), ForDig_47 (B6), Hashim76_56 (B13), Hosp_045 (B6), Jolie1_047 (B6), KarasumaRum_53 (B5), KayaCho_46 (B6), LittleMinkey_58 (B13), Mysterious_51 (B5), Phelemich_51 (B5), Reccee_53 (B5), Reprobate_52 (B5), Rita130_52 (B5), Serendipitous_52 (B5), SirJeffery_52 (B5), StinkyVeggy_53 (B5), Suigeneris_54 (B5), Zenteno07_57 (B13),

Summary by clusters:

There are 4 clusters represented in this pham: B5, B6, B12, B13,

Info for manual annotations of cluster B12:

- Start number 8 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 9 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B5:

- Start number 7 was manually annotated 2 times for cluster B5.
- Start number 9 was manually annotated 9 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 9 was manually annotated 2 times for cluster B6.

Gene Information:

Gene: 39HC_046 Start: 45589, Stop: 45425, Start Num: 9

Candidate Starts for 39HC_046:

(Start: 9 @45589 has 14 MA's), (10, 45565), (11, 45550), (13, 45502), (17, 45457),

Gene: 40BC_046 Start: 45589, Stop: 45425, Start Num: 9

Candidate Starts for 40BC_046:

(Start: 9 @45589 has 14 MA's), (10, 45565), (11, 45550), (13, 45502), (17, 45457),

Gene: Acadian_53 Start: 48105, Stop: 47941, Start Num: 9

Candidate Starts for Acadian_53:

(Start: 7 @48117 has 2 MA's), (Start: 9 @48105 has 14 MA's), (14, 48009), (17, 47973),

Gene: Bae_54 Start: 49393, Stop: 49217, Start Num: 7

Candidate Starts for Bae_54:

(Start: 7 @49393 has 2 MA's), (Start: 9 @49381 has 14 MA's), (12, 49315), (14, 49285), (17, 49249),

Gene: BirdsNest_56 Start: 47002, Stop: 46829, Start Num: 9

Candidate Starts for BirdsNest_56:

(5, 47173), (Start: 9 @47002 has 14 MA's), (10, 46978), (16, 46894), (17, 46870), (18, 46864),

Gene: DigitDog_53 Start: 48113, Stop: 47937, Start Num: 7

Candidate Starts for DigitDog_53:

(Start: 7 @48113 has 2 MA's), (Start: 9 @48101 has 14 MA's), (14, 48005), (17, 47969),

Gene: Donny_54 Start: 48395, Stop: 48231, Start Num: 9

Candidate Starts for Donny_54:

(Start: 9 @48395 has 14 MA's), (14, 48299), (17, 48263),

Gene: EastView9101_52 Start: 48042, Stop: 47878, Start Num: 9

Candidate Starts for EastView9101_52:

(Start: 9 @48042 has 14 MA's), (14, 47946), (17, 47910),

Gene: ForDig_47 Start: 45828, Stop: 45664, Start Num: 9

Candidate Starts for ForDig_47:

(Start: 9 @45828 has 14 MA's), (10, 45804), (11, 45789), (13, 45741), (17, 45696),

Gene: Hashim76_56 Start: 47575, Stop: 47402, Start Num: 9

Candidate Starts for Hashim76_56:

(2, 48184), (4, 47881), (5, 47743), (Start: 9 @47575 has 14 MA's), (11, 47536), (16, 47467), (17, 47443), (18, 47437),

Gene: Hosp_045 Start: 44019, Stop: 43855, Start Num: 9

Candidate Starts for Hosp_045:

(Start: 9 @44019 has 14 MA's), (10, 43995), (11, 43980), (13, 43932), (17, 43887),

Gene: Jolie1_047 Start: 45807, Stop: 45643, Start Num: 9

Candidate Starts for Jolie1_047:

(6, 45969), (Start: 9 @45807 has 14 MA's), (10, 45783), (11, 45768), (13, 45720), (17, 45675),

Gene: KarasumaRum_53 Start: 48252, Stop: 48088, Start Num: 9

Candidate Starts for KarasumaRum_53:

(Start: 7 @48264 has 2 MA's), (Start: 9 @48252 has 14 MA's), (14, 48156), (17, 48120),

Gene: KayaCho_46 Start: 45592, Stop: 45428, Start Num: 9

Candidate Starts for KayaCho_46:

(Start: 9 @45592 has 14 MA's), (10, 45568), (11, 45553), (13, 45505), (17, 45460),

Gene: LilMcDreamy_51 Start: 47791, Stop: 47630, Start Num: 8
Candidate Starts for LilMcDreamy_51:
(Start: 8 @47791 has 1 MA's), (12, 47722), (15, 47689), (18, 47650), (19, 47644),

Gene: LittleMinkey_58 Start: 47214, Stop: 47041, Start Num: 9
Candidate Starts for LittleMinkey_58:
(2, 47823), (5, 47382), (Start: 9 @47214 has 14 MA's), (11, 47175), (16, 47106), (17, 47082), (18, 47076),

Gene: Mysterious_51 Start: 48234, Stop: 48070, Start Num: 9
Candidate Starts for Mysterious_51:
(Start: 7 @48246 has 2 MA's), (Start: 9 @48234 has 14 MA's), (14, 48138), (17, 48102),

Gene: Nangang_53 Start: 48478, Stop: 48302, Start Num: 7
Candidate Starts for Nangang_53:
(Start: 7 @48478 has 2 MA's), (Start: 9 @48466 has 14 MA's), (14, 48370), (17, 48334),

Gene: Nehemiah_52 Start: 48246, Stop: 48070, Start Num: 7
Candidate Starts for Nehemiah_52:
(Start: 7 @48246 has 2 MA's), (Start: 9 @48234 has 14 MA's), (14, 48138), (17, 48102),

Gene: Phelemich_51 Start: 48233, Stop: 48069, Start Num: 9
Candidate Starts for Phelemich_51:
(Start: 7 @48245 has 2 MA's), (Start: 9 @48233 has 14 MA's), (12, 48167), (13, 48146), (14, 48137), (17, 48101),

Gene: Reccee_53 Start: 48293, Stop: 48129, Start Num: 9
Candidate Starts for Reccee_53:
(Start: 9 @48293 has 14 MA's), (14, 48197), (17, 48161),

Gene: Reprobate_52 Start: 48238, Stop: 48074, Start Num: 9
Candidate Starts for Reprobate_52:
(Start: 7 @48250 has 2 MA's), (Start: 9 @48238 has 14 MA's), (12, 48172), (13, 48151), (14, 48142), (17, 48106),

Gene: Rich_53 Start: 49684, Stop: 49508, Start Num: 7
Candidate Starts for Rich_53:
(Start: 7 @49684 has 2 MA's), (Start: 9 @49672 has 14 MA's), (12, 49606), (14, 49576), (17, 49540),

Gene: Rita130_52 Start: 48113, Stop: 47949, Start Num: 9
Candidate Starts for Rita130_52:
(Start: 9 @48113 has 14 MA's), (14, 48017), (17, 47981),

Gene: Serendipitous_52 Start: 47955, Stop: 47791, Start Num: 9
Candidate Starts for Serendipitous_52:
(Start: 7 @47967 has 2 MA's), (Start: 9 @47955 has 14 MA's), (12, 47889), (15, 47856), (17, 47823),

Gene: Shenyu_53 Start: 48478, Stop: 48302, Start Num: 7
Candidate Starts for Shenyu_53:
(Start: 7 @48478 has 2 MA's), (Start: 9 @48466 has 14 MA's), (14, 48370), (17, 48334),

Gene: SirJeffery_52 Start: 48115, Stop: 47951, Start Num: 9
Candidate Starts for SirJeffery_52:

(Start: 9 @48115 has 14 MA's), (14, 48019), (17, 47983),

Gene: StinkyVeggy_53 Start: 48252, Stop: 48088, Start Num: 9

Candidate Starts for StinkyVeggy_53:

(Start: 7 @48264 has 2 MA's), (Start: 9 @48252 has 14 MA's), (14, 48156), (17, 48120),

Gene: Suigeneris_54 Start: 48395, Stop: 48231, Start Num: 9

Candidate Starts for Suigeneris_54:

(Start: 9 @48395 has 14 MA's), (14, 48299), (17, 48263),

Gene: Zenteno07_57 Start: 47237, Stop: 47064, Start Num: 9

Candidate Starts for Zenteno07_57:

(1, 47972), (2, 47846), (3, 47804), (5, 47405), (Start: 9 @47237 has 14 MA's), (10, 47213), (16, 47129),
(17, 47105), (18, 47099),