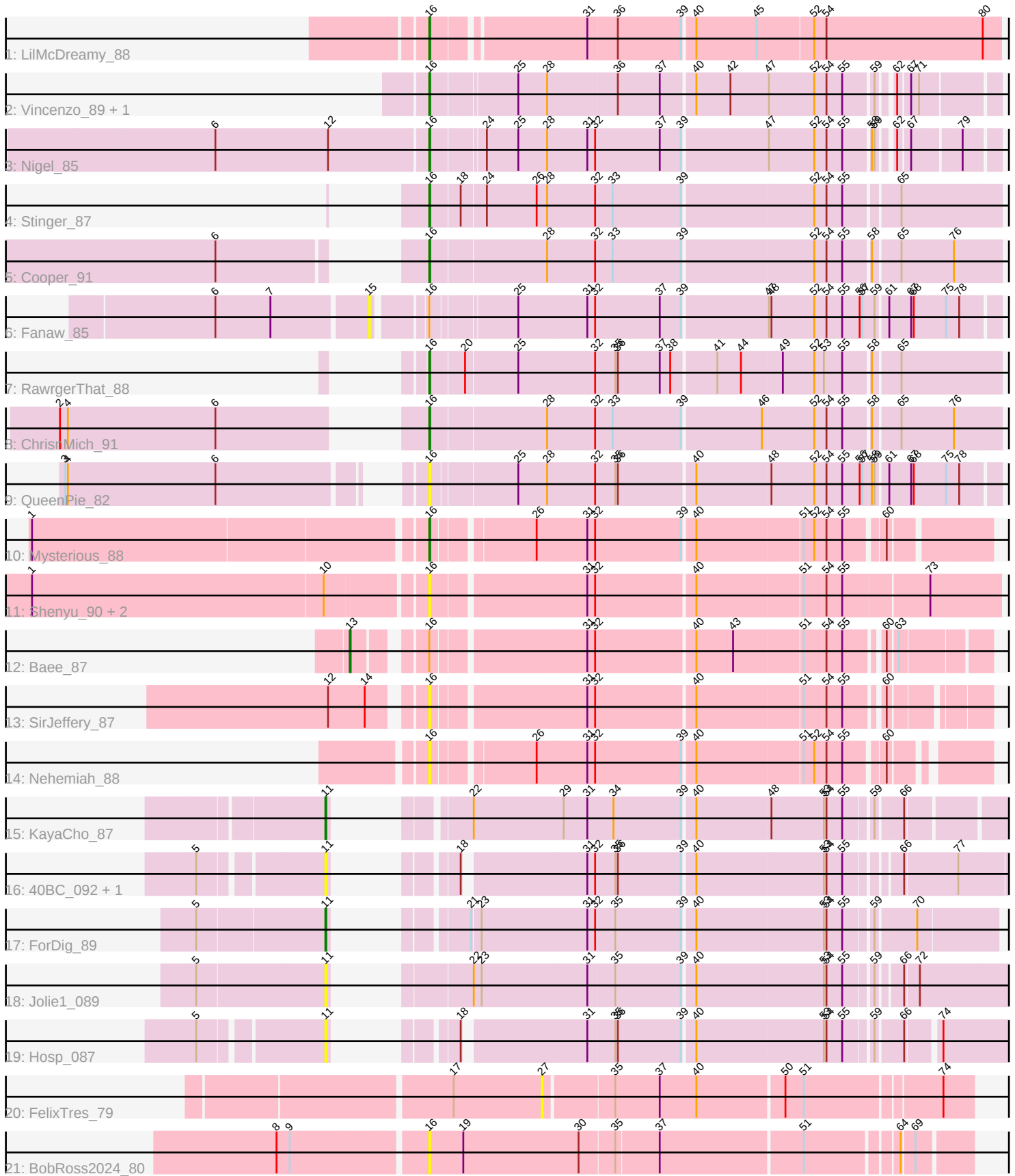


Pham 280813



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 280813 Report

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

Pham number 280813 has 25 members, 13 are drafts.

Phages represented in each track:

- Track 1 : LilMcDreamy_88
- Track 2 : Vincenzo_89, AlanGrant_90
- Track 3 : Nigel_85
- Track 4 : Stinger_87
- Track 5 : Cooper_91
- Track 6 : Fanaw_85
- Track 7 : RawrgerThat_88
- Track 8 : ChrisnMich_91
- Track 9 : QueenPie_82
- Track 10 : Mysterious_88
- Track 11 : Shenyu_90, DigitDog_91, Nangang_90
- Track 12 : Baee_87
- Track 13 : SirJeffery_87
- Track 14 : Nehemiah_88
- Track 15 : KayaCho_87
- Track 16 : 40BC_092, 39HC_092
- Track 17 : ForDig_89
- Track 18 : Jolie1_089
- Track 19 : Hosp_087
- Track 20 : FelixTres_79
- Track 21 : BobRoss2024_80

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

The start number called the most often in the published annotations is 16, it was called in 9 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlanGrant_90, BobRoss2024_80, ChrisnMich_91, Cooper_91, DigitDog_91, LilMcDreamy_88, Mysterious_88, Nangang_90, Nehemiah_88, Nigel_85, QueenPie_82, RawrgerThat_88, Shenyu_90, SirJeffery_87, Stinger_87, Vincenzo_89,

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

- Baee_87, Fanaw_85,

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

- 39HC_092, 40BC_092, FelixTres_79, ForDig_89, Hosp_087, Jolie1_089, KayaCho_87,

Summary by start number:

Start 11:

- Found in 6 of 25 (24.0%) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 39HC_092 (B6), 40BC_092 (B6), ForDig_89 (B6), Hosp_087 (B6), Jolie1_089 (B6), KayaCho_87 (B6),

Start 13:

- Found in 1 of 25 (4.0%) 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: Baee_87 (B5),

Start 15:

- Found in 1 of 25 (4.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fanaw_85 (B4),

Start 16:

- Found in 18 of 25 (72.0%) of genes in pham
- Manual Annotations of this start: 9 of 12
- Called 88.9% of time when present
- Phage (with cluster) where this start called: AlanGrant_90 (B4), BobRoss2024_80 (DR), ChrisnMich_91 (B4), Cooper_91 (B4), DigitDog_91 (B5), LilMcDreamy_88 (B12), Mysterious_88 (B5), Nangang_90 (B5), Nehemiah_88 (B5), Nigel_85 (B4), QueenPie_82 (B4), RawrgerThat_88 (B4), Shenyu_90 (B5), SirJeffery_87 (B5), Stinger_87 (B4), Vincenzo_89 (B4),

Start 27:

- Found in 1 of 25 (4.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FelixTres_79 (DR),

Summary by clusters:

There are 5 clusters represented in this pham: B4, DR, B6, B12, B5,

Info for manual annotations of cluster B12:

- Start number 16 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B4:

- Start number 16 was manually annotated 7 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 13 was manually annotated 1 time for cluster B5.
- Start number 16 was manually annotated 1 time for cluster B5.

Info for manual annotations of cluster B6:

- Start number 11 was manually annotated 2 times for cluster B6.

Gene Information:

Gene: 39HC_092 Start: 66926, Stop: 66300, Start Num: 11

Candidate Starts for 39HC_092:

(5, 67055), (Start: 11 @66926 has 2 MA's), (18, 66869), (31, 66740), (32, 66731), (35, 66710), (36, 66707), (39, 66638), (40, 66626), (53, 66485), (54, 66482), (55, 66464), (66, 66413), (77, 66356),

Gene: 40BC_092 Start: 66926, Stop: 66300, Start Num: 11

Candidate Starts for 40BC_092:

(5, 67055), (Start: 11 @66926 has 2 MA's), (18, 66869), (31, 66740), (32, 66731), (35, 66710), (36, 66707), (39, 66638), (40, 66626), (53, 66485), (54, 66482), (55, 66464), (66, 66413), (77, 66356),

Gene: AlanGrant_90 Start: 68004, Stop: 67411, Start Num: 16

Candidate Starts for AlanGrant_90:

(Start: 16 @68004 has 9 MA's), (25, 67911), (28, 67878), (36, 67800), (37, 67752), (40, 67716), (42, 67677), (47, 67635), (52, 67584), (54, 67572), (55, 67554), (59, 67524), (62, 67512), (67, 67500), (71, 67491),

Gene: Baee_87 Start: 66191, Stop: 65547, Start Num: 13

Candidate Starts for Baee_87:

(Start: 13 @66191 has 1 MA's), (Start: 16 @66128 has 9 MA's), (31, 65963), (32, 65954), (40, 65846), (43, 65804), (51, 65729), (54, 65705), (55, 65687), (60, 65651), (63, 65642),

Gene: BobRoss2024_80 Start: 58265, Stop: 57684, Start Num: 16

Candidate Starts for BobRoss2024_80:

(8, 58427), (9, 58412), (Start: 16 @58265 has 9 MA's), (19, 58226), (30, 58094), (35, 58055), (37, 58007), (51, 57848), (64, 57752), (69, 57740),

Gene: ChrisnMich_91 Start: 66059, Stop: 65439, Start Num: 16

Candidate Starts for ChrisnMich_91:

(2, 66395), (4, 66386), (6, 66218), (Start: 16 @66059 has 9 MA's), (28, 65930), (32, 65876), (33, 65858), (39, 65780), (46, 65693), (52, 65636), (54, 65624), (55, 65606), (58, 65579), (65, 65552), (76, 65492),

Gene: Cooper_91 Start: 66596, Stop: 65976, Start Num: 16

Candidate Starts for Cooper_91:

(6, 66749), (Start: 16 @66596 has 9 MA's), (28, 66467), (32, 66413), (33, 66395), (39, 66317), (52, 66173), (54, 66161), (55, 66143), (58, 66116), (65, 66089), (76, 66029),

Gene: DigitDog_91 Start: 66458, Stop: 65841, Start Num: 16

Candidate Starts for DigitDog_91:

(1, 66893), (10, 66563), (Start: 16 @66458 has 9 MA's), (31, 66290), (32, 66281), (40, 66173), (51, 66056), (54, 66032), (55, 66014), (73, 65921),

Gene: Fanaw_85 Start: 67084, Stop: 66422, Start Num: 15

Candidate Starts for Fanaw_85:

(6, 67252), (7, 67189), (15, 67084), (Start: 16 @67033 has 9 MA's), (25, 66943), (31, 66865), (32, 66856), (37, 66784), (39, 66760), (47, 66667), (48, 66664), (52, 66616), (54, 66604), (55, 66586), (56, 66568), (57, 66565), (59, 66553), (61, 66541), (67, 66517), (68, 66514), (75, 66478), (78, 66463),

Gene: FelixTres_79 Start: 58071, Stop: 57607, Start Num: 27

Candidate Starts for FelixTres_79:

(17, 58170), (27, 58071), (35, 57996), (37, 57945), (40, 57903), (50, 57807), (51, 57786), (74, 57639),

Gene: ForDig_89 Start: 66193, Stop: 65561, Start Num: 11

Candidate Starts for ForDig_89:

(5, 66334), (Start: 11 @66193 has 2 MA's), (21, 66124), (23, 66115), (31, 65995), (32, 65986), (35, 65965), (39, 65893), (40, 65881), (53, 65740), (54, 65737), (55, 65719), (59, 65692), (70, 65650),

Gene: Hosp_087 Start: 64231, Stop: 63587, Start Num: 11

Candidate Starts for Hosp_087:

(5, 64360), (Start: 11 @64231 has 2 MA's), (18, 64174), (31, 64045), (35, 64015), (36, 64012), (39, 63943), (40, 63931), (53, 63790), (54, 63787), (55, 63769), (59, 63742), (66, 63715), (74, 63682),

Gene: Jolie1_089 Start: 66284, Stop: 65610, Start Num: 11

Candidate Starts for Jolie1_089:

(5, 66428), (Start: 11 @66284 has 2 MA's), (22, 66203), (23, 66194), (31, 66074), (35, 66044), (39, 65972), (40, 65960), (53, 65819), (54, 65816), (55, 65798), (59, 65771), (66, 65747), (72, 65732),

Gene: KayaCho_87 Start: 66154, Stop: 65498, Start Num: 11

Candidate Starts for KayaCho_87:

(Start: 11 @66154 has 2 MA's), (22, 66085), (29, 65983), (31, 65956), (34, 65926), (39, 65851), (40, 65839), (48, 65755), (53, 65698), (54, 65695), (55, 65677), (59, 65650), (66, 65623),

Gene: LilMcDreamy_88 Start: 66128, Stop: 65508, Start Num: 16

Candidate Starts for LilMcDreamy_88:

(Start: 16 @66128 has 9 MA's), (31, 65966), (36, 65933), (39, 65861), (40, 65849), (45, 65780), (52, 65717), (54, 65705), (80, 65528),

Gene: Mysterious_88 Start: 65876, Stop: 65298, Start Num: 16

Candidate Starts for Mysterious_88:

(1, 66308), (Start: 16 @65876 has 9 MA's), (26, 65771), (31, 65714), (32, 65705), (39, 65609), (40, 65597), (51, 65480), (52, 65468), (54, 65456), (55, 65438), (60, 65399),

Gene: Nangang_90 Start: 66354, Stop: 65737, Start Num: 16

Candidate Starts for Nangang_90:

(1, 66789), (10, 66459), (Start: 16 @66354 has 9 MA's), (31, 66186), (32, 66177), (40, 66069), (51, 65952), (54, 65928), (55, 65910), (73, 65817),

Gene: Nehemiah_88 Start: 65744, Stop: 65178, Start Num: 16

Candidate Starts for Nehemiah_88:

(Start: 16 @65744 has 9 MA's), (26, 65639), (31, 65582), (32, 65573), (39, 65477), (40, 65465), (51, 65348), (52, 65336), (54, 65324), (55, 65306), (60, 65267),

Gene: Nigel_85 Start: 65605, Stop: 65015, Start Num: 16

Candidate Starts for Nigel_85:

(6, 65845), (12, 65716), (Start: 16 @65605 has 9 MA's), (24, 65548), (25, 65512), (28, 65479), (31, 65434), (32, 65425), (37, 65353), (39, 65329), (47, 65236), (52, 65185), (54, 65173), (55, 65155), (58, 65128), (59, 65125), (62, 65113), (67, 65101), (79, 65050),

Gene: QueenPie_82 Start: 65696, Stop: 65082, Start Num: 16

Candidate Starts for QueenPie_82:

(3, 66044), (4, 66041), (6, 65876), (Start: 16 @65696 has 9 MA's), (25, 65603), (28, 65570), (32, 65516), (35, 65495), (36, 65492), (40, 65408), (48, 65324), (52, 65276), (54, 65264), (55, 65246), (56, 65228), (57, 65225), (58, 65216), (59, 65213), (61, 65201), (67, 65177), (68, 65174), (75, 65138), (78, 65123),

Gene: RawrgerThat_88 Start: 66936, Stop: 66319, Start Num: 16

Candidate Starts for RawrgerThat_88:

(Start: 16 @66936 has 9 MA's), (20, 66900), (25, 66843), (32, 66756), (35, 66735), (36, 66732), (37, 66684), (38, 66672), (41, 66624), (44, 66597), (49, 66552), (52, 66516), (53, 66507), (55, 66486), (58, 66459), (65, 66432),

Gene: Shenyu_90 Start: 66352, Stop: 65735, Start Num: 16

Candidate Starts for Shenyu_90:

(1, 66787), (10, 66457), (Start: 16 @66352 has 9 MA's), (31, 66184), (32, 66175), (40, 66067), (51, 65950), (54, 65926), (55, 65908), (73, 65815),

Gene: SirJeffery_87 Start: 65697, Stop: 65122, Start Num: 16

Candidate Starts for SirJeffery_87:

(12, 65790), (14, 65748), (Start: 16 @65697 has 9 MA's), (31, 65532), (32, 65523), (40, 65415), (51, 65298), (54, 65274), (55, 65256), (60, 65220),

Gene: Stinger_87 Start: 65601, Stop: 64981, Start Num: 16

Candidate Starts for Stinger_87:

(Start: 16 @65601 has 9 MA's), (18, 65568), (24, 65541), (26, 65484), (28, 65472), (32, 65418), (33, 65400), (39, 65322), (52, 65178), (54, 65166), (55, 65148), (65, 65094),

Gene: Vincenzo_89 Start: 68034, Stop: 67441, Start Num: 16

Candidate Starts for Vincenzo_89:

(Start: 16 @68034 has 9 MA's), (25, 67941), (28, 67908), (36, 67830), (37, 67782), (40, 67746), (42, 67707), (47, 67665), (52, 67614), (54, 67602), (55, 67584), (59, 67554), (62, 67542), (67, 67530), (71, 67521),