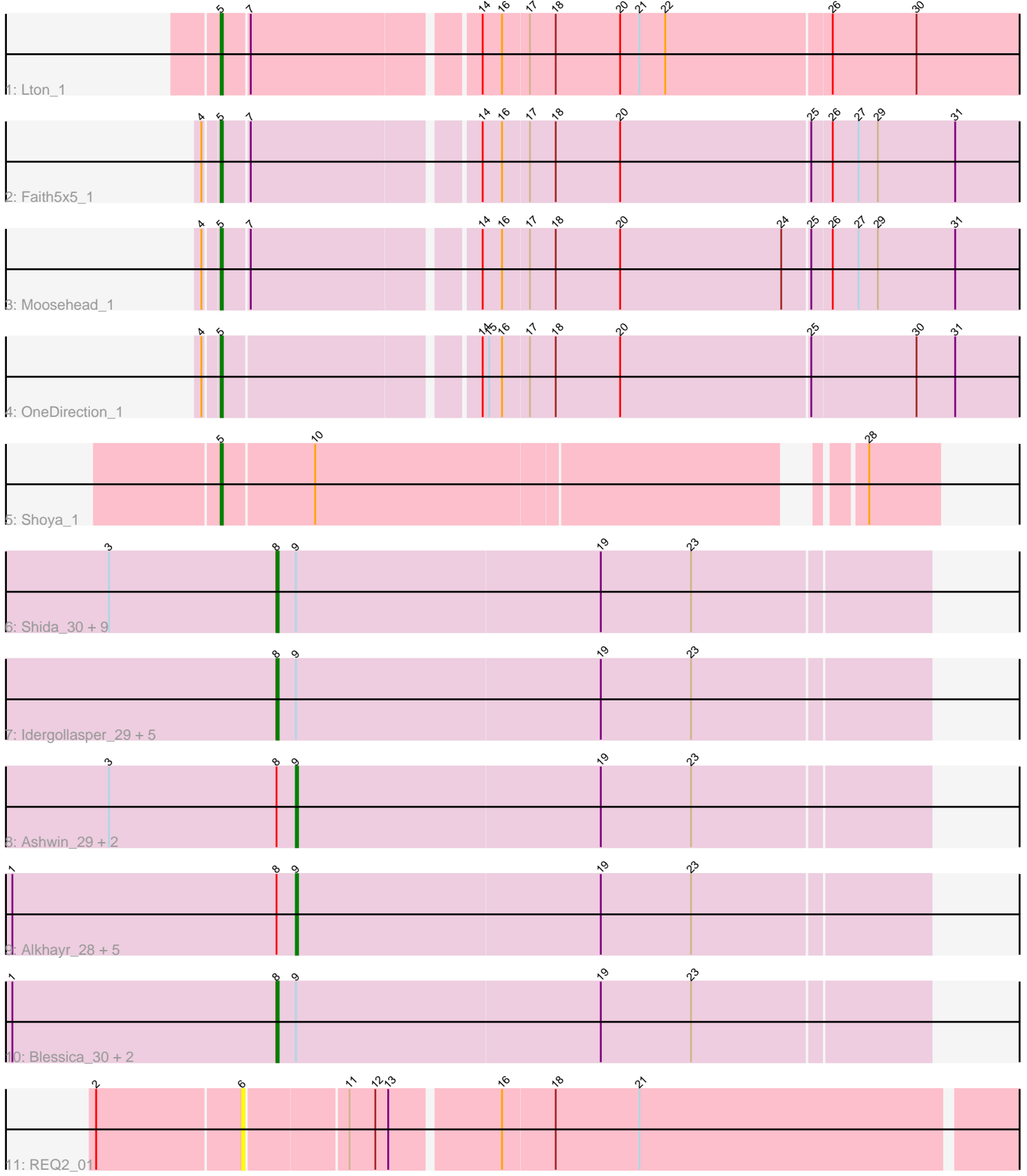


Pham 158058



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 158058 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158058 has 34 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Lton_1
- Track 2 : Faith5x5_1
- Track 3 : Moosehead_1
- Track 4 : OneDirection_1
- Track 5 : Shoya_1
- Track 6 : Shida_30, Corndog_31, Dylan_29, Mori_29, Firecracker_30, Vorrrps_29, NiebruSaylor_29, Wildflower_28, Zakhe101_30, Krili_29
- Track 7 : Idergollasper_29, JangDynasty_29, FoulBall_27, Murai_30, TelAviv_27, Familton_30
- Track 8 : Ashwin_29, YungJamal_32, Bora_27
- Track 9 : Alkhayr_28, SchoolBus_29, Ryadel_32, Catdawg_29, Schuy_28, Winget_30
- Track 10 : Blessica_30, Smooch_32, MadKillah_31
- Track 11 : REQ2_01

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

The start number called the most often in the published annotations is 8, it was called in 17 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Blessica_30, Corndog_31, Dylan_29, Familton_30, Firecracker_30, FoulBall_27, Idergollasper_29, JangDynasty_29, Krili_29, MadKillah_31, Mori_29, Murai_30, NiebruSaylor_29, Shida_30, Smooch_32, TelAviv_27, Vorrrps_29, Wildflower_28, Zakhe101_30,

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

- Alkhayr_28, Ashwin_29, Bora_27, Catdawg_29, Ryadel_32, SchoolBus_29, Schuy_28, Winget_30, YungJamal_32,

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

- Faith5x5_1, Lton_1, Moosehead_1, OneDirection_1, REQ2_01, Shoya_1,

Summary by start number:

Start 5:

- Found in 5 of 34 (14.7%) of genes in pham
- Manual Annotations of this start: 5 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Faith5x5_1 (CZ6), Lton_1 (CZ), Moosehead_1 (CZ6), OneDirection_1 (CZ6), Shoya_1 (FB),

Start 6:

- Found in 1 of 34 (2.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: REQ2_01 (singleton),

Start 8:

- Found in 28 of 34 (82.4%) of genes in pham
- Manual Annotations of this start: 17 of 27
- Called 67.9% of time when present
- Phage (with cluster) where this start called: Blessica_30 (O), Corndog_31 (O), Dylan_29 (O), Familton_30 (O), Firecracker_30 (O), FoulBall_27 (O), Idergollasper_29 (O), JangDynasty_29 (O), Krili_29 (O), MadKillah_31 (O), Mori_29 (O), Murai_30 (O), NiebruSaylor_29 (O), Shida_30 (O), Smooch_32 (O), TelAviv_27 (O), Vorrrps_29 (O), Wildflower_28 (O), Zakhe101_30 (O),

Start 9:

- Found in 28 of 34 (82.4%) of genes in pham
- Manual Annotations of this start: 5 of 27
- Called 32.1% of time when present
- Phage (with cluster) where this start called: Alkhayr_28 (O), Ashwin_29 (O), Bora_27 (O), Catdawg_29 (O), Ryadel_32 (O), SchoolBus_29 (O), Schuy_28 (O), Winget_30 (O), YungJamal_32 (O),

Summary by clusters:

There are 5 clusters represented in this pham: CZ, singleton, CZ6, FB, O,

Info for manual annotations of cluster CZ:

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

Info for manual annotations of cluster CZ6:

- Start number 5 was manually annotated 3 times for cluster CZ6.

Info for manual annotations of cluster FB:

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

Info for manual annotations of cluster O:

- Start number 8 was manually annotated 17 times for cluster O.
- Start number 9 was manually annotated 5 times for cluster O.

Gene Information:

Gene: Alkhayr_28 Start: 13190, Stop: 13480, Start Num: 9

Candidate Starts for Alkhayr_28:

(1, 13058), (Start: 8 @13181 has 17 MA's), (Start: 9 @13190 has 5 MA's), (19, 13331), (23, 13373),

Gene: Ashwin_29 Start: 13200, Stop: 13490, Start Num: 9

Candidate Starts for Ashwin_29:

(3, 13113), (Start: 8 @13191 has 17 MA's), (Start: 9 @13200 has 5 MA's), (19, 13341), (23, 13383),

Gene: Blessica_30 Start: 13214, Stop: 13513, Start Num: 8

Candidate Starts for Blessica_30:

(1, 13091), (Start: 8 @13214 has 17 MA's), (Start: 9 @13223 has 5 MA's), (19, 13364), (23, 13406),

Gene: Bora_27 Start: 12653, Stop: 12943, Start Num: 9

Candidate Starts for Bora_27:

(3, 12566), (Start: 8 @12644 has 17 MA's), (Start: 9 @12653 has 5 MA's), (19, 12794), (23, 12836),

Gene: Catdawg_29 Start: 12829, Stop: 13119, Start Num: 9

Candidate Starts for Catdawg_29:

(1, 12697), (Start: 8 @12820 has 17 MA's), (Start: 9 @12829 has 5 MA's), (19, 12970), (23, 13012),

Gene: Corndog_31 Start: 13270, Stop: 13569, Start Num: 8

Candidate Starts for Corndog_31:

(3, 13192), (Start: 8 @13270 has 17 MA's), (Start: 9 @13279 has 5 MA's), (19, 13420), (23, 13462),

Gene: Dylan_29 Start: 12996, Stop: 13295, Start Num: 8

Candidate Starts for Dylan_29:

(3, 12918), (Start: 8 @12996 has 17 MA's), (Start: 9 @13005 has 5 MA's), (19, 13146), (23, 13188),

Gene: Faith5x5_1 Start: 103, Stop: 465, Start Num: 5

Candidate Starts for Faith5x5_1:

(4, 97), (Start: 5 @103 has 5 MA's), (7, 115), (14, 214), (16, 223), (17, 235), (18, 247), (20, 277), (25, 364), (26, 373), (27, 385), (29, 394), (31, 430),

Gene: Familton_30 Start: 12824, Stop: 13123, Start Num: 8

Candidate Starts for Familton_30:

(Start: 8 @12824 has 17 MA's), (Start: 9 @12833 has 5 MA's), (19, 12974), (23, 13016),

Gene: Firecracker_30 Start: 12894, Stop: 13193, Start Num: 8

Candidate Starts for Firecracker_30:

(3, 12816), (Start: 8 @12894 has 17 MA's), (Start: 9 @12903 has 5 MA's), (19, 13044), (23, 13086),

Gene: FoulBall_27 Start: 12818, Stop: 13117, Start Num: 8

Candidate Starts for FoulBall_27:

(Start: 8 @12818 has 17 MA's), (Start: 9 @12827 has 5 MA's), (19, 12968), (23, 13010),

Gene: Idergollasper_29 Start: 12818, Stop: 13117, Start Num: 8

Candidate Starts for Idergollasper_29:

(Start: 8 @12818 has 17 MA's), (Start: 9 @12827 has 5 MA's), (19, 12968), (23, 13010),

Gene: JangDynasty_29 Start: 12913, Stop: 13212, Start Num: 8

Candidate Starts for JangDynasty_29:

(Start: 8 @12913 has 17 MA's), (Start: 9 @12922 has 5 MA's), (19, 13063), (23, 13105),

Gene: Krili_29 Start: 12988, Stop: 13287, Start Num: 8
Candidate Starts for Krili_29:
(3, 12910), (Start: 8 @12988 has 17 MA's), (Start: 9 @12997 has 5 MA's), (19, 13138), (23, 13180),

Gene: Lton_1 Start: 107, Stop: 469, Start Num: 5
Candidate Starts for Lton_1:
(Start: 5 @107 has 5 MA's), (7, 119), (14, 218), (16, 227), (17, 239), (18, 251), (20, 281), (21, 290),
(22, 302), (26, 377), (30, 416),

Gene: MadKillah_31 Start: 13207, Stop: 13506, Start Num: 8
Candidate Starts for MadKillah_31:
(1, 13084), (Start: 8 @13207 has 17 MA's), (Start: 9 @13216 has 5 MA's), (19, 13357), (23, 13399),

Gene: Moosehead_1 Start: 103, Stop: 465, Start Num: 5
Candidate Starts for Moosehead_1:
(4, 97), (Start: 5 @103 has 5 MA's), (7, 115), (14, 214), (16, 223), (17, 235), (18, 247), (20, 277), (24,
352), (25, 364), (26, 373), (27, 385), (29, 394), (31, 430),

Gene: Mori_29 Start: 12859, Stop: 13158, Start Num: 8
Candidate Starts for Mori_29:
(3, 12781), (Start: 8 @12859 has 17 MA's), (Start: 9 @12868 has 5 MA's), (19, 13009), (23, 13051),

Gene: Murai_30 Start: 13049, Stop: 13348, Start Num: 8
Candidate Starts for Murai_30:
(Start: 8 @13049 has 17 MA's), (Start: 9 @13058 has 5 MA's), (19, 13199), (23, 13241),

Gene: NiebruSaylor_29 Start: 12860, Stop: 13159, Start Num: 8
Candidate Starts for NiebruSaylor_29:
(3, 12782), (Start: 8 @12860 has 17 MA's), (Start: 9 @12869 has 5 MA's), (19, 13010), (23, 13052),

Gene: OneDirection_1 Start: 104, Stop: 466, Start Num: 5
Candidate Starts for OneDirection_1:
(4, 98), (Start: 5 @104 has 5 MA's), (14, 215), (15, 218), (16, 224), (17, 236), (18, 248), (20, 278), (25,
365), (30, 413), (31, 431),

Gene: REQ2_01 Start: 71, Stop: 421, Start Num: 6
Candidate Starts for REQ2_01:
(2, 5), (6, 71), (11, 116), (12, 128), (13, 134), (16, 182), (18, 206), (21, 245),

Gene: Ryadel_32 Start: 13643, Stop: 13933, Start Num: 9
Candidate Starts for Ryadel_32:
(1, 13511), (Start: 8 @13634 has 17 MA's), (Start: 9 @13643 has 5 MA's), (19, 13784), (23, 13826),

Gene: SchoolBus_29 Start: 12830, Stop: 13120, Start Num: 9
Candidate Starts for SchoolBus_29:
(1, 12698), (Start: 8 @12821 has 17 MA's), (Start: 9 @12830 has 5 MA's), (19, 12971), (23, 13013),

Gene: Schuy_28 Start: 13216, Stop: 13506, Start Num: 9
Candidate Starts for Schuy_28:
(1, 13084), (Start: 8 @13207 has 17 MA's), (Start: 9 @13216 has 5 MA's), (19, 13357), (23, 13399),

Gene: Shida_30 Start: 13114, Stop: 13413, Start Num: 8
Candidate Starts for Shida_30:

(3, 13036), (Start: 8 @13114 has 17 MA's), (Start: 9 @13123 has 5 MA's), (19, 13264), (23, 13306),

Gene: Shoya_1 Start: 59, Stop: 364, Start Num: 5

Candidate Starts for Shoya_1:

(Start: 5 @59 has 5 MA's), (10, 101), (28, 332),

Gene: Smooch_32 Start: 14365, Stop: 14664, Start Num: 8

Candidate Starts for Smooch_32:

(1, 14242), (Start: 8 @14365 has 17 MA's), (Start: 9 @14374 has 5 MA's), (19, 14515), (23, 14557),

Gene: TelAviv_27 Start: 12815, Stop: 13114, Start Num: 8

Candidate Starts for TelAviv_27:

(Start: 8 @12815 has 17 MA's), (Start: 9 @12824 has 5 MA's), (19, 12965), (23, 13007),

Gene: Vorrrps_29 Start: 12860, Stop: 13159, Start Num: 8

Candidate Starts for Vorrrps_29:

(3, 12782), (Start: 8 @12860 has 17 MA's), (Start: 9 @12869 has 5 MA's), (19, 13010), (23, 13052),

Gene: Wildflower_28 Start: 12855, Stop: 13154, Start Num: 8

Candidate Starts for Wildflower_28:

(3, 12777), (Start: 8 @12855 has 17 MA's), (Start: 9 @12864 has 5 MA's), (19, 13005), (23, 13047),

Gene: Winget_30 Start: 13096, Stop: 13386, Start Num: 9

Candidate Starts for Winget_30:

(1, 12964), (Start: 8 @13087 has 17 MA's), (Start: 9 @13096 has 5 MA's), (19, 13237), (23, 13279),

Gene: YungJamal_32 Start: 13159, Stop: 13449, Start Num: 9

Candidate Starts for YungJamal_32:

(3, 13072), (Start: 8 @13150 has 17 MA's), (Start: 9 @13159 has 5 MA's), (19, 13300), (23, 13342),

Gene: Zakhe101_30 Start: 13000, Stop: 13299, Start Num: 8

Candidate Starts for Zakhe101_30:

(3, 12922), (Start: 8 @13000 has 17 MA's), (Start: 9 @13009 has 5 MA's), (19, 13150), (23, 13192),