Pham 284170

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 284170 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284170 has 22 members, 8 are drafts.

Phages represented in each track:
• Track 1 : IUFootball_23, Liebe_23, Maureen_23
• Track 2 : Emotion_55
• Track 3 : Cen1621_66
• Track 4 : GardenState_69, IAmGroot_68
• Track 5 : Zeta1847_49
• Track 6 : Sunshine23_101
• Track 7 : Sonali_99
• Track 8 : Maruru_99
• Track 9 : CalWood4100_80, Lilmac1015_80
• Track 10 : Nandito_79
• Track 11 : Bolt007_78
• Track 12 : Klevey_81
• Track 13 : PorkBelly_50
• Track 14 : Kharcho_27, Ottawa_27
• Track 15 : Jankie_55
• Track 16 : GrimEater_53
• Track 17 : Lukepolites_73

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

The start number called the most often in the published annotations is 21, it was called in 7 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bolt007_78, CalWood4100_80, Emotion_55, GrimEater_53, Jankie_55, Kharcho_27, Klevey_81, Lilmac1015_80, Maruru_99, Nandito_79, Ottawa_27, Sunshine23_101,

Genes that have the "Most Annotated" start but do not call it:
• Sonali_99,

Genes that do not have the "Most Annotated" start:
• Cen1621_66, GardenState_69, IAmGroot_68, IUFootball_23, Liebe_23, Lukepolites_73, Maureen_23, PorkBelly_50, Zeta1847_49,

Summary by start number:

Start 14:
• Found in 3 of 22 (13.6%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Sonali_99 (FG),

Start 18:
• Found in 3 of 22 (13.6%) of genes in pham
• Manual Annotations of this start: 2 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: IUFootball_23 (AZ2), Liebe_23 (AZ2), Maureen_23 (AZ2),

Start 21:
• Found in 13 of 22 (59.1%) of genes in pham
• Manual Annotations of this start: 7 of 14
• Called 92.3% of time when present
• Phage (with cluster) where this start called: Bolt007_78 (FH), CalWood4100_80 (FH), Emotion_55 (AZ4), GrimEater_53 (FP), Jankie_55 (FP), Kharcho_27 (FM), Klevey_81 (FH), Lilmac1015_80 (FH), Maruru_99 (FG), Nandito_79 (FH), Ottawa_27 (FM), Sunshine23_101 (FG),

Start 22:
• Found in 1 of 22 (4.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PorkBelly_50 (FJ),

Start 23:
• Found in 1 of 22 (4.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lukepolites_73 (singleton),

Start 25:
• Found in 2 of 22 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Zeta1847_49 (EH),

Start 26:
• Found in 7 of 22 (31.8%) of genes in pham
• Manual Annotations of this start: 3 of 14
• Called 42.9% of time when present
• Phage (with cluster) where this start called: Cen1621_66 (EH), GardenState_69 (EH), IAmGroot_68 (EH),

Summary by clusters:

There are 9 clusters represented in this pham: FP, singleton, EH, FG, FH, FJ, AZ2, AZ4, FM,

Info for manual annotations of cluster AZ2:
•Start number 18 was manually annotated 2 times for cluster AZ2.

Info for manual annotations of cluster AZ4:
•Start number 21 was manually annotated 1 time for cluster AZ4.

Info for manual annotations of cluster EH:
•Start number 25 was manually annotated 1 time for cluster EH.
•Start number 26 was manually annotated 3 times for cluster EH.

Info for manual annotations of cluster FG:
•Start number 14 was manually annotated 1 time for cluster FG.
•Start number 21 was manually annotated 1 time for cluster FG.

Info for manual annotations of cluster FH:
•Start number 21 was manually annotated 3 times for cluster FH.

Info for manual annotations of cluster FM:
•Start number 21 was manually annotated 2 times for cluster FM.

Gene Information:

Gene: Bolt007_78 Start: 49680, Stop: 48901, Start Num: 21
Candidate Starts for Bolt007_78:
(11, 49755), (Start: 21 @49680 has 7 MA's), (33, 49521), (39, 49398), (40, 49347), (54, 49119), (63, 48990),

Gene: CalWood4100_80 Start: 49859, Stop: 49071, Start Num: 21
Candidate Starts for CalWood4100_80:
(7, 49967), (15, 49910), (16, 49907), (Start: 21 @49859 has 7 MA's), (33, 49700), (39, 49577), (40, 49526), (54, 49295), (64, 49157),

Gene: Cen1621_66 Start: 44317, Stop: 45051, Start Num: 26
Candidate Starts for Cen1621_66:
(2, 43984), (5, 44113), (6, 44161), (20, 44272), (Start: 25 @44302 has 1 MA's), (Start: 26 @44317 has 3 MA's), (32, 44425), (49, 44752), (60, 44953),

Gene: Emotion_55 Start: 37527, Stop: 38288, Start Num: 21
Candidate Starts for Emotion_55:
(Start: 21 @37527 has 7 MA's), (43, 37878), (56, 38100), (57, 38127), (63, 38211),

Gene: GardenState_69 Start: 42002, Stop: 42718, Start Num: 26
Candidate Starts for GardenState_69:
(Start: 26 @42002 has 3 MA's), (49, 42431),

Gene: GrimEater_53 Start: 36520, Stop: 37155, Start Num: 21

Candidate Starts for GrimEater_53:
(19, 36487), (Start: 21 @36520 has 7 MA's), (24, 36529), (30, 36625), (48, 36988),

Gene: IAmGroot_68 Start: 42211, Stop: 42927, Start Num: 26
Candidate Starts for IAmGroot_68:
(Start: 26 @42211 has 3 MA's), (49, 42640),

Gene: IUFootball_23 Start: 19676, Stop: 20467, Start Num: 18
Candidate Starts for IUFootball_23:
(Start: 18 @19676 has 2 MA's), (19, 19685), (Start: 26 @19748 has 3 MA's), (32, 19850), (36, 19925),
(53, 20258), (57, 20297),

Gene: Jankie_55 Start: 36702, Stop: 37337, Start Num: 21
Candidate Starts for Jankie_55:
(1, 36393), (3, 36489), (4, 36507), (8, 36618), (13, 36633), (19, 36669), (Start: 21 @36702 has 7 MA's),
(24, 36711), (30, 36807), (48, 37170),

Gene: Kharcho_27 Start: 10163, Stop: 10948, Start Num: 21
Candidate Starts for Kharcho_27:
(Start: 21 @10163 has 7 MA's), (28, 10238), (39, 10445), (40, 10496), (42, 10517), (54, 10727),

Gene: Klevey_81 Start: 49956, Stop: 49168, Start Num: 21
Candidate Starts for Klevey_81:
(7, 50064), (15, 50007), (16, 50004), (Start: 21 @49956 has 7 MA's), (33, 49797), (39, 49674), (40,
49623), (54, 49392),

Gene: Liebe_23 Start: 19676, Stop: 20467, Start Num: 18
Candidate Starts for Liebe_23:
(Start: 18 @19676 has 2 MA's), (19, 19685), (Start: 26 @19748 has 3 MA's), (32, 19850), (36, 19925),
(53, 20258), (57, 20297),

Gene: Lilmac1015_80 Start: 49859, Stop: 49071, Start Num: 21
Candidate Starts for Lilmac1015_80:
(7, 49967), (15, 49910), (16, 49907), (Start: 21 @49859 has 7 MA's), (33, 49700), (39, 49577), (40,
49526), (54, 49295), (64, 49157),

Gene: Lukepolites_73 Start: 47056, Stop: 46286, Start Num: 23
Candidate Starts for Lukepolites_73:
(9, 47143), (17, 47107), (23, 47056), (27, 47002), (37, 46831), (44, 46702), (46, 46678), (47, 46654),
(50, 46570), (63, 46372), (65, 46360), (66, 46324),

Gene: Maruru_99 Start: 60098, Stop: 59316, Start Num: 21
Candidate Starts for Maruru_99:
(10, 60170), (12, 60167), (Start: 14 @60161 has 1 MA's), (Start: 21 @60098 has 7 MA's), (28, 60023),
(29, 60020), (39, 59813), (40, 59762), (52, 59576), (54, 59531), (55, 59525), (61, 59405),

Gene: Maureen_23 Start: 19676, Stop: 20467, Start Num: 18
Candidate Starts for Maureen_23:
(Start: 18 @19676 has 2 MA's), (19, 19685), (Start: 26 @19748 has 3 MA's), (32, 19850), (36, 19925),
(53, 20258), (57, 20297),

Gene: Nandito_79 Start: 50159, Stop: 49368, Start Num: 21
Candidate Starts for Nandito_79:

(Start: 21 @50159 has 7 MA's), (34, 49976), (40, 49820), (54, 49589), (63, 49457),

Gene: Ottawa_27 Start: 10163, Stop: 10948, Start Num: 21
Candidate Starts for Ottawa_27:
(Start: 21 @10163 has 7 MA's), (28, 10238), (39, 10445), (40, 10496), (42, 10517), (54, 10727),

Gene: PorkBelly_50 Start: 38512, Stop: 37673, Start Num: 22
Candidate Starts for PorkBelly_50:
(22, 38512), (29, 38440), (35, 38320), (38, 38263), (40, 38149), (41, 38116), (45, 38095), (51, 37954), (56, 37861), (58, 37819), (59, 37810), (61, 37771), (62, 37768),

Gene: Sonali_99 Start: 61044, Stop: 60199, Start Num: 14
Candidate Starts for Sonali_99:
(10, 61053), (Start: 14 @61044 has 1 MA's), (Start: 21 @60981 has 7 MA's), (28, 60906), (29, 60903), (39, 60696), (40, 60645), (52, 60459), (54, 60414), (61, 60288),

Gene: Sunshine23_101 Start: 60790, Stop: 60005, Start Num: 21
Candidate Starts for Sunshine23_101:
(10, 60862), (Start: 14 @60853 has 1 MA's), (Start: 21 @60790 has 7 MA's), (29, 60712), (31, 60673), (39, 60505), (40, 60454), (52, 60265), (54, 60220), (61, 60094),

Gene: Zeta1847_49 Start: 35401, Stop: 36153, Start Num: 25
Candidate Starts for Zeta1847_49:
(Start: 25 @35401 has 1 MA's), (Start: 26 @35416 has 3 MA's), (45, 35752),