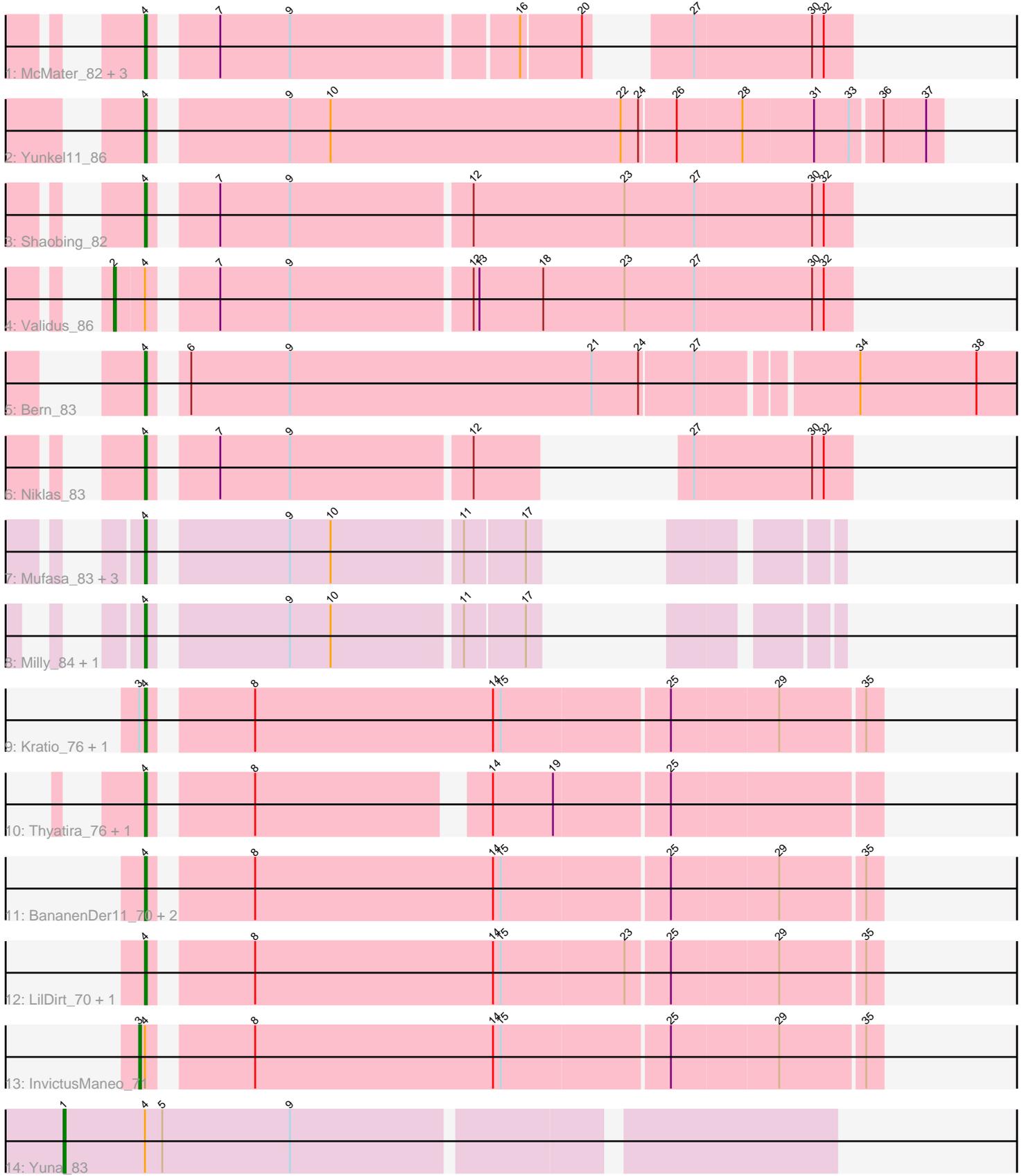# Pham 289692

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 289692 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289692 has 26 members, 6 are drafts.

Phages represented in each track:
• Track 1 : McMater_82, Peanam_83, Dartin_82, Richo_82
• Track 2 : Yunkel11_86
• Track 3 : Shaobing_82
• Track 4 : Validus_86
• Track 5 : Bern_83
• Track 6 : Niklas_83
• Track 7 : Mufasa_83, ZoeJ_83, Doughnut_84, BoostSeason_83
• Track 8 : Milly_84, TM4_83
• Track 9 : Kratio_76, Agent47_73
• Track 10 : Thyatira_76, Waterfoul_75
• Track 11 : BananenDer11_70, Collard_71, DoubleChamp_70
• Track 12 : LilDirt_70, ViviJ_79
• Track 13 : InvictusManeo_71
• Track 14 : Yuna_83

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 17 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Agent47_73, BananenDer11_70, Bern_83, BoostSeason_83, Collard_71, Dartin_82, DoubleChamp_70, Doughnut_84, Kratio_76, LilDirt_70, McMater_82, Milly_84, Mufasa_83, Niklas_83, Peanam_83, Richo_82, Shaobing_82, TM4_83, Thyatira_76, ViviJ_79, Waterfoul_75, Yunkel11_86, ZoeJ_83,

Genes that have the "Most Annotated" start but do not call it:
• InvictusManeo_71, Validus_86, Yuna_83,

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

Summary by start number:

Start 1:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Yuna_83 (K6),

Start 2:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Validus_86 (K1),

Start 3:
• Found in 3 of 26 (11.5%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 33.3% of time when present
• Phage (with cluster) where this start called: InvictusManeo_71 (K5),

Start 4:
• Found in 26 of 26 (100.0%) of genes in pham
• Manual Annotations of this start: 17 of 20
• Called 88.5% of time when present
• Phage (with cluster) where this start called: Agent47_73 (K5), BananenDer11_70 (K5), Bern_83 (K1), BoostSeason_83 (K2), Collard_71 (K5), Dartin_82 (K1), DoubleChamp_70 (K5), Doughnut_84 (K2), Kratio_76 (K5), LilDirt_70 (K5), McMater_82 (K1), Milly_84 (K2), Mufasa_83 (K2), Niklas_83 (K1), Peanam_83 (K1), Richo_82 (K1), Shaobing_82 (K1), TM4_83 (K2), Thyatira_76 (K5), ViviJ_79 (K5), Waterfoul_75 (K5), Yunkel11_86 (K1), ZoeJ_83 (K2),

Summary by clusters:

There are 4 clusters represented in this pham: K2, K1, K6, K5,

Info for manual annotations of cluster K1:
•Start number 2 was manually annotated 1 time for cluster K1.
•Start number 4 was manually annotated 5 times for cluster K1.

Info for manual annotations of cluster K2:
•Start number 4 was manually annotated 6 times for cluster K2.

Info for manual annotations of cluster K5:
•Start number 3 was manually annotated 1 time for cluster K5.
•Start number 4 was manually annotated 6 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 1 was manually annotated 1 time for cluster K6.

Gene Information:

Gene: Agent47_73 Start: 49176, Stop: 49535, Start Num: 4
Candidate Starts for Agent47_73:

(Start: 3 @49173 has 1 MA's), (Start: 4 @49176 has 17 MA's), (8, 49221), (14, 49344), (15, 49347), (25, 49431), (29, 49485), (35, 49527),

Gene: BananenDer11_70 Start: 49137, Stop: 49496, Start Num: 4
Candidate Starts for BananenDer11_70:
(Start: 4 @49137 has 17 MA's), (8, 49182), (14, 49305), (15, 49308), (25, 49392), (29, 49446), (35, 49488),

Gene: Bern_83 Start: 51564, Stop: 51989, Start Num: 4
Candidate Starts for Bern_83:
(Start: 4 @51564 has 17 MA's), (6, 51576), (9, 51627), (21, 51783), (24, 51807), (27, 51834), (34, 51909), (38, 51969),

Gene: BoostSeason_83 Start: 54198, Stop: 54458, Start Num: 4
Candidate Starts for BoostSeason_83:
(Start: 4 @54198 has 17 MA's), (9, 54261), (10, 54282), (11, 54345), (17, 54375),

Gene: Collard_71 Start: 49137, Stop: 49496, Start Num: 4
Candidate Starts for Collard_71:
(Start: 4 @49137 has 17 MA's), (8, 49182), (14, 49305), (15, 49308), (25, 49392), (29, 49446), (35, 49488),

Gene: Dartin_82 Start: 53736, Stop: 54047, Start Num: 4
Candidate Starts for Dartin_82:
(Start: 4 @53736 has 17 MA's), (7, 53763), (9, 53799), (16, 53910), (20, 53940), (27, 53967), (30, 54027), (32, 54033),

Gene: DoubleChamp_70 Start: 49137, Stop: 49496, Start Num: 4
Candidate Starts for DoubleChamp_70:
(Start: 4 @49137 has 17 MA's), (8, 49182), (14, 49305), (15, 49308), (25, 49392), (29, 49446), (35, 49488),

Gene: Doughnut_84 Start: 54378, Stop: 54641, Start Num: 4
Candidate Starts for Doughnut_84:
(Start: 4 @54378 has 17 MA's), (9, 54441), (10, 54462), (11, 54525), (17, 54555),

Gene: InvictusManeo_71 Start: 49177, Stop: 49539, Start Num: 3
Candidate Starts for InvictusManeo_71:
(Start: 3 @49177 has 1 MA's), (Start: 4 @49180 has 17 MA's), (8, 49225), (14, 49348), (15, 49351), (25, 49435), (29, 49489), (35, 49531),

Gene: Kratio_76 Start: 50738, Stop: 51097, Start Num: 4
Candidate Starts for Kratio_76:
(Start: 3 @50735 has 1 MA's), (Start: 4 @50738 has 17 MA's), (8, 50783), (14, 50906), (15, 50909), (25, 50993), (29, 51047), (35, 51089),

Gene: LilDirt_70 Start: 48938, Stop: 49297, Start Num: 4
Candidate Starts for LilDirt_70:
(Start: 4 @48938 has 17 MA's), (8, 48983), (14, 49106), (15, 49109), (23, 49172), (25, 49193), (29, 49247), (35, 49289),

Gene: McMater_82 Start: 53736, Stop: 54047, Start Num: 4
Candidate Starts for McMater_82:

(Start: 4 @53736 has 17 MA's), (7, 53763), (9, 53799), (16, 53910), (20, 53940), (27, 53967), (30, 54027), (32, 54033),

Gene: Milly_84 Start: 54701, Stop: 54961, Start Num: 4
Candidate Starts for Milly_84:
(Start: 4 @54701 has 17 MA's), (9, 54764), (10, 54785), (11, 54848), (17, 54878),

Gene: Mufasa_83 Start: 54185, Stop: 54445, Start Num: 4
Candidate Starts for Mufasa_83:
(Start: 4 @54185 has 17 MA's), (9, 54248), (10, 54269), (11, 54332), (17, 54362),

Gene: Niklas_83 Start: 53812, Stop: 54087, Start Num: 4
Candidate Starts for Niklas_83:
(Start: 4 @53812 has 17 MA's), (7, 53839), (9, 53875), (12, 53965), (27, 54007), (30, 54067), (32, 54073),

Gene: Peanam_83 Start: 53755, Stop: 54066, Start Num: 4
Candidate Starts for Peanam_83:
(Start: 4 @53755 has 17 MA's), (7, 53782), (9, 53818), (16, 53929), (20, 53959), (27, 53986), (30, 54046), (32, 54052),

Gene: Richo_82 Start: 53736, Stop: 54047, Start Num: 4
Candidate Starts for Richo_82:
(Start: 4 @53736 has 17 MA's), (7, 53763), (9, 53799), (16, 53910), (20, 53940), (27, 53967), (30, 54027), (32, 54033),

Gene: Shaobing_82 Start: 53787, Stop: 54134, Start Num: 4
Candidate Starts for Shaobing_82:
(Start: 4 @53787 has 17 MA's), (7, 53814), (9, 53850), (12, 53940), (23, 54018), (27, 54054), (30, 54114), (32, 54120),

Gene: TM4_83 Start: 49480, Stop: 49743, Start Num: 4
Candidate Starts for TM4_83:
(Start: 4 @49480 has 17 MA's), (9, 49543), (10, 49564), (11, 49627), (17, 49657),

Gene: Thyatira_76 Start: 53221, Stop: 53565, Start Num: 4
Candidate Starts for Thyatira_76:
(Start: 4 @53221 has 17 MA's), (8, 53266), (14, 53374), (19, 53404), (25, 53461),

Gene: Validus_86 Start: 54324, Stop: 54686, Start Num: 2
Candidate Starts for Validus_86:
(Start: 2 @54324 has 1 MA's), (Start: 4 @54339 has 17 MA's), (7, 54366), (9, 54402), (12, 54492), (13, 54495), (18, 54528), (23, 54570), (27, 54606), (30, 54666), (32, 54672),

Gene: ViviJ_79 Start: 51225, Stop: 51584, Start Num: 4
Candidate Starts for ViviJ_79:
(Start: 4 @51225 has 17 MA's), (8, 51270), (14, 51393), (15, 51396), (23, 51459), (25, 51480), (29, 51534), (35, 51576),

Gene: Waterfoul_75 Start: 51291, Stop: 51635, Start Num: 4
Candidate Starts for Waterfoul_75:
(Start: 4 @51291 has 17 MA's), (8, 51336), (14, 51444), (19, 51474), (25, 51531),

Gene: Yuna_83 Start: 54192, Stop: 54572, Start Num: 1
Candidate Starts for Yuna_83:
(Start: 1 @54192 has 1 MA's), (Start: 4 @54234 has 17 MA's), (5, 54243), (9, 54309),

Gene: Yunkel11_86 Start: 52988, Stop: 53380, Start Num: 4
Candidate Starts for Yunkel11_86:
(Start: 4 @52988 has 17 MA's), (9, 53051), (10, 53072), (22, 53222), (24, 53231), (26, 53249), (28, 53282), (31, 53318), (33, 53336), (36, 53351), (37, 53372),

Gene: ZoeJ_83 Start: 54160, Stop: 54420, Start Num: 4
Candidate Starts for ZoeJ_83:
(Start: 4 @54160 has 17 MA's), (9, 54223), (10, 54244), (11, 54307), (17, 54337),