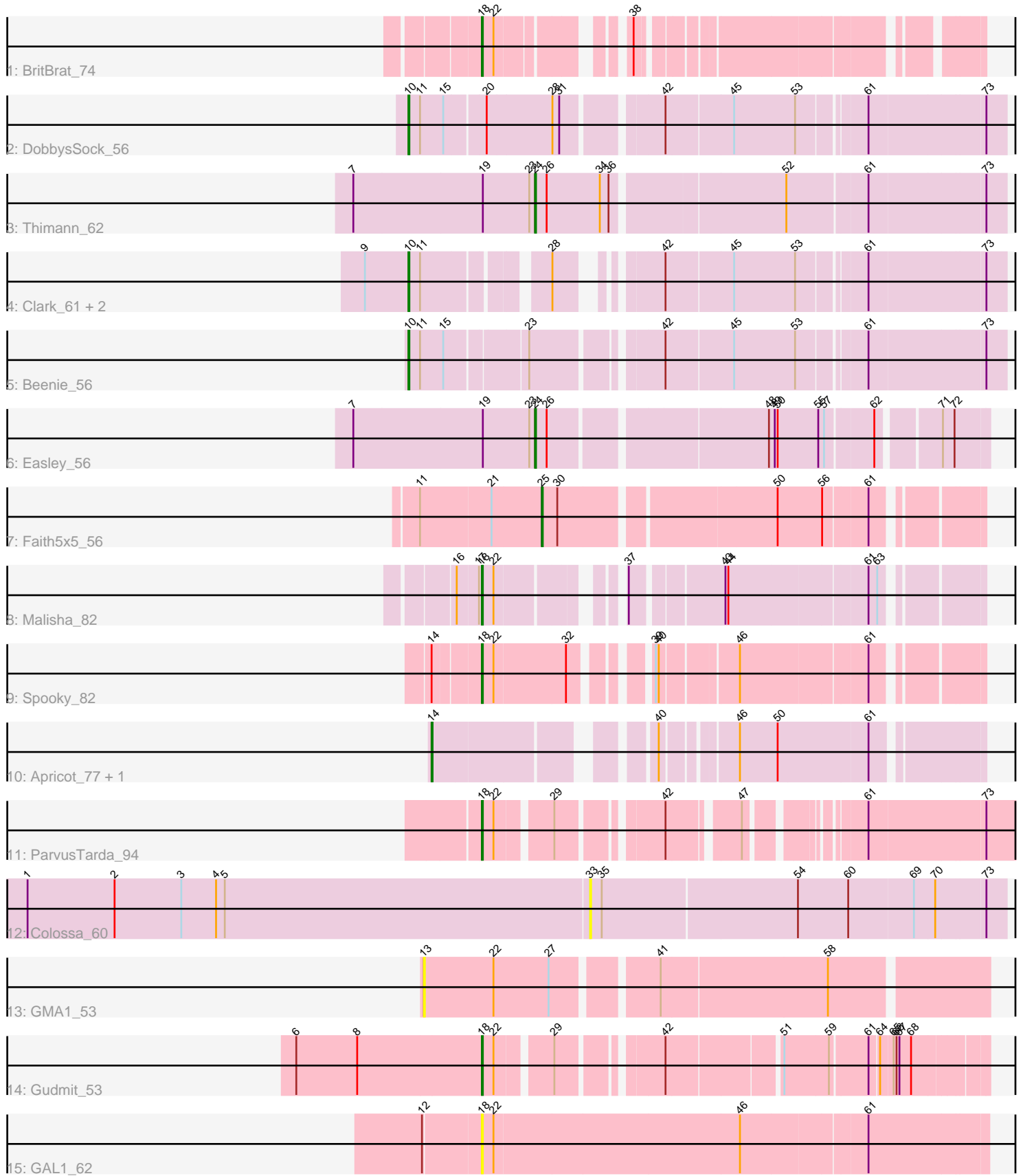# Pham 280939

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 280939 Report

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

Pham number 280939 has 18 members, 3 are drafts.

Phages represented in each track:
• Track 1 : BritBrat_74
• Track 2 : DobbysSock_56
• Track 3 : Thimann_62
• Track 4 : Clark_61, Samman98_62, Invectra_64
• Track 5 : Beenie_56
• Track 6 : Easley_56
• Track 7 : Faith5x5_56
• Track 8 : Malisha_82
• Track 9 : Spooky_82
• Track 10 : Apricot_77, Lton_57
• Track 11 : ParvusTarda_94
• Track 12 : Colossa_60
• Track 13 : GMA1_53
• Track 14 : Gudmit_53
• Track 15 : GAL1_62

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

The start number called the most often in the published annotations is 18, it was called in 5 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BritBrat_74, GAL1_62, Gudmit_53, Malisha_82, ParvusTarda_94, Spooky_82,

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

Genes that do not have the "Most Annotated" start:
• Apricot_77, Beenie_56, Clark_61, Colossa_60, DobbysSock_56, Easley_56, Faith5x5_56, GMA1_53, Invectra_64, Lton_57, Samman98_62, Thimann_62,

Summary by start number:

Start 10:

• Found in 5 of 18 (27.8%) of genes in pham
• Manual Annotations of this start: 5 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beenie_56 (CZ4), Clark_61 (CZ4), DobbysSock_56 (CZ4), Invectra_64 (CZ4), Samman98_62 (CZ4),

Start 13:
• Found in 1 of 18 (5.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA1_53 (singleton),

Start 14:
• Found in 3 of 18 (16.7%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Apricot_77 (DN3), Lton_57 (CZ),

Start 18:
• Found in 6 of 18 (33.3%) of genes in pham
• Manual Annotations of this start: 5 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BritBrat_74 (CY2), GAL1_62 (singleton), Gudmit_53 (singleton), Malisha_82 (DN), ParvusTarda_94 (DV), Spooky_82 (DN2),

Start 24:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Easley_56 (CZ4), Thimann_62 (CZ4),

Start 25:
• Found in 1 of 18 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Faith5x5_56 (CZ6),

Start 33:
• Found in 1 of 18 (5.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Colossa_60 (KA),

Summary by clusters:

There are 10 clusters represented in this pham: DN, CY2, singleton, CZ6, KA, CZ4, CZ, DN3, DN2, DV,

Info for manual annotations of cluster CY2:
•Start number 18 was manually annotated 1 time for cluster CY2.

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

Info for manual annotations of cluster CZ4:
•Start number 10 was manually annotated 5 times for cluster CZ4.
•Start number 24 was manually annotated 2 times for cluster CZ4.

Info for manual annotations of cluster CZ6:
•Start number 25 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DN:
•Start number 18 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN2:
•Start number 18 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DN3:
•Start number 14 was manually annotated 1 time for cluster DN3.

Info for manual annotations of cluster DV:
•Start number 18 was manually annotated 1 time for cluster DV.

Gene Information:

Gene: Apricot_77 Start: 44433, Stop: 44912, Start Num: 14
Candidate Starts for Apricot_77:
(Start: 14 @44433 has 2 MA's), (40, 44619), (46, 44682), (50, 44721), (61, 44811),

Gene: Beenie_56 Start: 40503, Stop: 41057, Start Num: 10
Candidate Starts for Beenie_56:
(Start: 10 @40503 has 5 MA's), (11, 40515), (15, 40539), (23, 40614), (42, 40731), (45, 40797), (53, 40860), (61, 40923), (73, 41037),

Gene: BritBrat_74 Start: 46520, Stop: 46924, Start Num: 18
Candidate Starts for BritBrat_74:
(Start: 18 @46520 has 5 MA's), (22, 46532), (38, 46631),

Gene: Clark_61 Start: 40299, Stop: 40820, Start Num: 10
Candidate Starts for Clark_61:
(9, 40254), (Start: 10 @40299 has 5 MA's), (11, 40311), (28, 40419), (42, 40494), (45, 40560), (53, 40623), (61, 40686), (73, 40800),

Gene: Colossa_60 Start: 39464, Stop: 39880, Start Num: 33
Candidate Starts for Colossa_60:
(1, 38885), (2, 38975), (3, 39044), (4, 39080), (5, 39089), (33, 39464), (35, 39476), (54, 39674), (60, 39725), (69, 39791), (70, 39812), (73, 39860),

Gene: DobbysSock_56 Start: 39905, Stop: 40468, Start Num: 10
Candidate Starts for DobbysSock_56:
(Start: 10 @39905 has 5 MA's), (11, 39917), (15, 39941), (20, 39980), (28, 40046), (31, 40052), (42, 40142), (45, 40208), (53, 40271), (61, 40334), (73, 40448),

Gene: Easley_56 Start: 39021, Stop: 39443, Start Num: 24
Candidate Starts for Easley_56:
(7, 38835), (19, 38967), (23, 39015), (Start: 24 @39021 has 2 MA's), (26, 39033), (48, 39240), (49, 39246), (50, 39249), (55, 39291), (57, 39297), (62, 39342), (71, 39399), (72, 39411),

Gene: Faith5x5_56 Start: 35249, Stop: 35653, Start Num: 25
Candidate Starts for Faith5x5_56:
(11, 35126), (21, 35198), (Start: 25 @35249 has 1 MA's), (30, 35264), (50, 35471), (56, 35516), (61, 35558),

Gene: GAL1_62 Start: 40466, Stop: 40969, Start Num: 18
Candidate Starts for GAL1_62:
(12, 40409), (Start: 18 @40466 has 5 MA's), (22, 40478), (46, 40727), (61, 40850),

Gene: GMA1_53 Start: 33138, Stop: 33686, Start Num: 13
Candidate Starts for GMA1_53:
(13, 33138), (22, 33210), (27, 33267), (41, 33363), (58, 33531),

Gene: Gudmit_53 Start: 33127, Stop: 33576, Start Num: 18
Candidate Starts for Gudmit_53:
(6, 32938), (8, 33001), (Start: 18 @33127 has 5 MA's), (22, 33139), (29, 33190), (42, 33280), (51, 33388), (59, 33433), (61, 33469), (64, 33478), (65, 33490), (66, 33493), (67, 33496), (68, 33508),

Gene: Invectra_64 Start: 41872, Stop: 42393, Start Num: 10
Candidate Starts for Invectra_64:
(9, 41827), (Start: 10 @41872 has 5 MA's), (11, 41884), (28, 41992), (42, 42067), (45, 42133), (53, 42196), (61, 42259), (73, 42373),

Gene: Lton_57 Start: 34468, Stop: 34947, Start Num: 14
Candidate Starts for Lton_57:
(Start: 14 @34468 has 2 MA's), (40, 34654), (46, 34717), (50, 34756), (61, 34846),

Gene: Malisha_82 Start: 49477, Stop: 49902, Start Num: 18
Candidate Starts for Malisha_82:
(16, 49453), (17, 49474), (Start: 18 @49477 has 5 MA's), (22, 49489), (37, 49585), (43, 49669), (44, 49672), (61, 49807), (63, 49816),

Gene: ParvusTarda_94 Start: 64352, Stop: 64807, Start Num: 18
Candidate Starts for ParvusTarda_94:
(Start: 18 @64352 has 5 MA's), (22, 64364), (29, 64415), (42, 64505), (47, 64568), (61, 64661), (73, 64775),

Gene: Samman98_62 Start: 40402, Stop: 40923, Start Num: 10
Candidate Starts for Samman98_62:
(9, 40357), (Start: 10 @40402 has 5 MA's), (11, 40414), (28, 40522), (42, 40597), (45, 40663), (53, 40726), (61, 40789), (73, 40903),

Gene: Spooky_82 Start: 46716, Stop: 47147, Start Num: 18
Candidate Starts for Spooky_82:
(Start: 14 @46671 has 2 MA's), (Start: 18 @46716 has 5 MA's), (22, 46728), (32, 46800), (39, 46857), (40, 46860), (46, 46929), (61, 47052),

Gene: Thimann_62 Start: 40740, Stop: 41195, Start Num: 24

Candidate Starts for Thimann_62:
(7, 40554), (19, 40686), (23, 40734), (Start: 24 @40740 has 2 MA's), (26, 40752), (34, 40806), (36, 40815), (52, 40983), (61, 41061), (73, 41175),