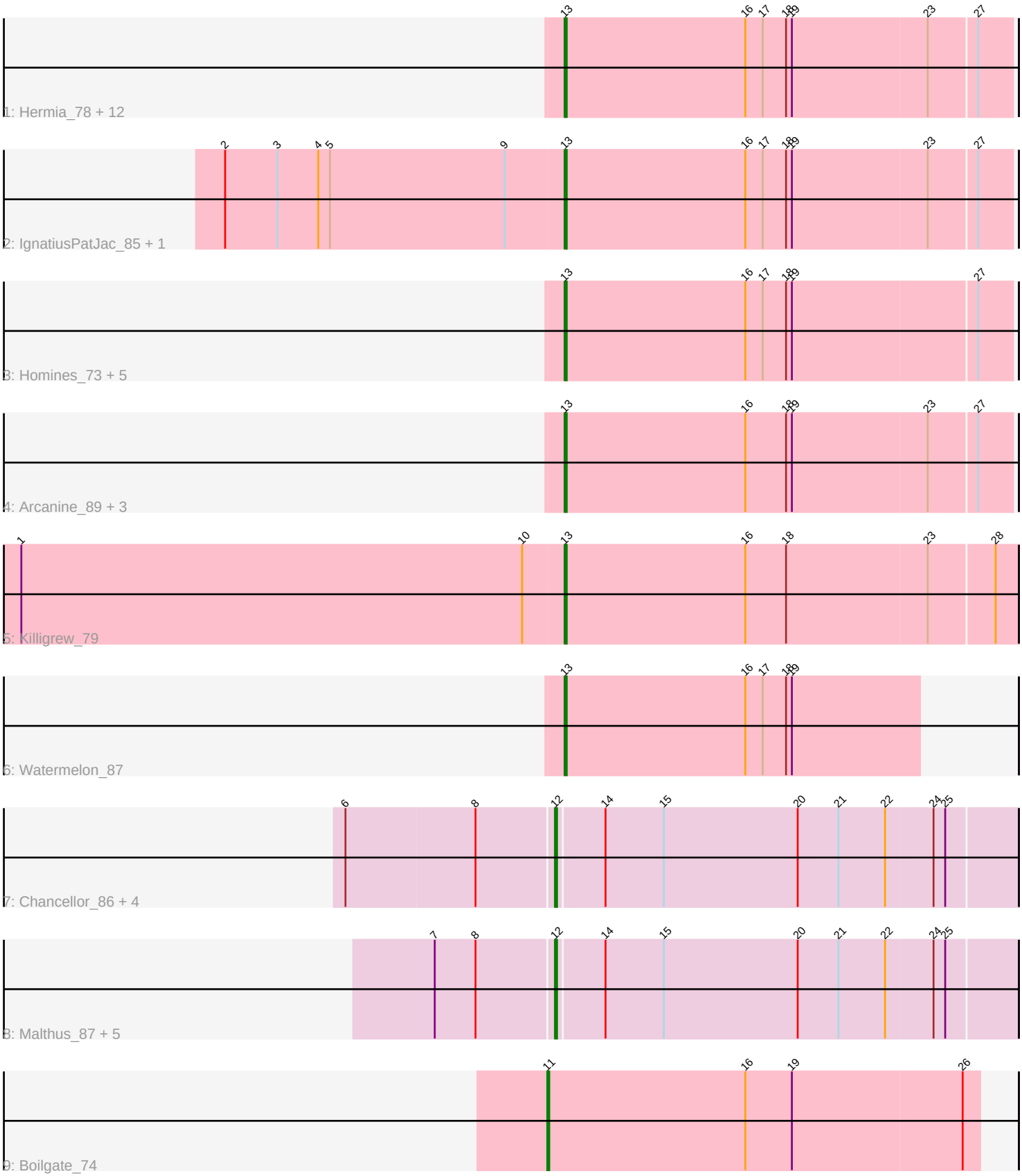
Pham 86018


13 16 17 18 19 23 27
1: Hermia_78 + 12
2 3 4 5 9 13 16 17 18 19 23 27
2: IgnatiusPatJac_85 + 1
13 16 17 18 19 27
3: Homines_73 + 5
13 16 18 19 23 27
4: Arcanine_89 + 3
1 10 13 16 18 23 28
5: Killigrew_79
13 16 17 18 19
6: Watermelon_87
6 8 12 14 15 20 21 22 24 25
7: Chancellor_86 + 4
7 8 12 14 15 20 21 22 24 25
8: Malthus_87 + 5
11 16 19 26
9: Boilgate_74

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 86018 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86018 has 39 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Hermia_78, Ashballer_85, MetalQZJ_84, Altman_91, Papez_89, MaryBeth_86, Kanely_90, Alvin_82, Atkinbua_94, Wheeler_90, Ciao_84, Pippin_88, Corvo_89
• Track 2 : IgnatiusPatJac_85, BluSpix_82
• Track 3 : Homines_73, Gwendoluna_87, Greg_88, Fajezeel_88, Acme_89, PinkPlastic_79
• Track 4 : Arcanine_89, Slagathor_86, BPBiebs31_90, Anglerfish_88
• Track 5 : Killigrew_79
• Track 6 : Watermelon_87
• Track 7 : Chancellor_86, Mitti_86, Y10_82, JF1_86, Y2_82
• Track 8 : Malthus_87, Fionnbharth_86, Wintermute_86, Taquito_86, Juliette_88, Ruthiejr_88
• Track 9 : Boilgate_74

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

The start number called the most often in the published annotations is 13, it was called in 25 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acme_89, Altman_91, Alvin_82, Anglerfish_88, Arcanine_89, Ashballer_85, Atkinbua_94, BPBiebs31_90, BluSpix_82, Ciao_84, Corvo_89, Fajezeel_88, Greg_88, Gwendoluna_87, Hermia_78, Homines_73, IgnatiusPatJac_85, Kanely_90, Killigrew_79, MaryBeth_86, MetalQZJ_84, Papez_89, PinkPlastic_79, Pippin_88, Slagathor_86, Watermelon_87, Wheeler_90,

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

Genes that do not have the "Most Annotated" start:
• Boilgate_74, Chancellor_86, Fionnbharth_86, JF1_86, Juliette_88, Malthus_87, Mitti_86, Ruthiejr_88, Taquito_86, Wintermute_86, Y10_82, Y2_82,

Summary by start number:

Start 11:
• Found in 1 of 39 (2.6%) of genes in pham
• Manual Annotations of this start: 1 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Boilgate_74 (K8),

Start 12:
• Found in 11 of 39 (28.2%) of genes in pham
• Manual Annotations of this start: 11 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chancellor_86 (K4), Fionnbharth_86 (K4), JF1_86 (K4), Juliette_88 (K4), Malthus_87 (K4), Mitti_86 (K4), Ruthiejr_88 (K4), Taquito_86 (K4), Wintermute_86 (K4), Y10_82 (K4), Y2_82 (K4),

Start 13:
• Found in 27 of 39 (69.2%) of genes in pham
• Manual Annotations of this start: 25 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acme_89 (A1), Altman_91 (A1), Alvin_82 (A1), Anglerfish_88 (A1), Arcanine_89 (A1), Ashballer_85 (A1), Atkinbua_94 (A1), BPBiebs31_90 (A1), BluSpix_82 (A1), Ciao_84 (A1), Corvo_89 (A1), Fajezeel_88 (A1), Greg_88 (A1), Gwendoluna_87 (A1), Hermia_78 (A1), Homines_73 (A1), IgnatiusPatJac_85 (A1), Kanely_90 (A1), Killigrew_79 (A1), MaryBeth_86 (A1), MetalQZJ_84 (A1), Papez_89 (A1), PinkPlastic_79 (A1), Pippin_88 (A1), Slagathor_86 (A1), Watermelon_87 (A1), Wheeler_90 (A1),

Summary by clusters:

There are 3 clusters represented in this pham: A1, K8, K4,

Info for manual annotations of cluster A1:
•Start number 13 was manually annotated 25 times for cluster A1.

Info for manual annotations of cluster K4:
•Start number 12 was manually annotated 11 times for cluster K4.

Info for manual annotations of cluster K8:
•Start number 11 was manually annotated 1 time for cluster K8.

Gene Information:

Gene: Acme_89 Start: 50707, Stop: 50480, Start Num: 13
Candidate Starts for Acme_89:
(Start: 13 @50707 has 25 MA's), (16, 50614), (17, 50605), (18, 50593), (19, 50590), (27, 50497),

Gene: Altman_91 Start: 50366, Stop: 50139, Start Num: 13
Candidate Starts for Altman_91:
(Start: 13 @50366 has 25 MA's), (16, 50273), (17, 50264), (18, 50252), (19, 50249), (23, 50180), (27, 50156),

Gene: Alvin_82 Start: 47929, Stop: 47702, Start Num: 13
Candidate Starts for Alvin_82:
(Start: 13 @47929 has 25 MA's), (16, 47836), (17, 47827), (18, 47815), (19, 47812), (23, 47743), (27, 47719),

Gene: Anglerfish_88 Start: 50252, Stop: 50025, Start Num: 13
Candidate Starts for Anglerfish_88:
(Start: 13 @50252 has 25 MA's), (16, 50159), (18, 50138), (19, 50135), (23, 50066), (27, 50042),

Gene: Arcanine_89 Start: 50505, Stop: 50278, Start Num: 13
Candidate Starts for Arcanine_89:
(Start: 13 @50505 has 25 MA's), (16, 50412), (18, 50391), (19, 50388), (23, 50319), (27, 50295),

Gene: Ashballer_85 Start: 49286, Stop: 49059, Start Num: 13
Candidate Starts for Ashballer_85:
(Start: 13 @49286 has 25 MA's), (16, 49193), (17, 49184), (18, 49172), (19, 49169), (23, 49100), (27, 49076),

Gene: Atkinbua_94 Start: 50802, Stop: 50575, Start Num: 13
Candidate Starts for Atkinbua_94:
(Start: 13 @50802 has 25 MA's), (16, 50709), (17, 50700), (18, 50688), (19, 50685), (23, 50616), (27, 50592),

Gene: BPBiebs31_90 Start: 50360, Stop: 50133, Start Num: 13
Candidate Starts for BPBiebs31_90:
(Start: 13 @50360 has 25 MA's), (16, 50267), (18, 50246), (19, 50243), (23, 50174), (27, 50150),

Gene: BluSpix_82 Start: 44170, Stop: 43943, Start Num: 13
Candidate Starts for BluSpix_82:
(2, 44344), (3, 44317), (4, 44296), (5, 44290), (9, 44200), (Start: 13 @44170 has 25 MA's), (16, 44077), (17, 44068), (18, 44056), (19, 44053), (23, 43984), (27, 43960),

Gene: Boilgate_74 Start: 53689, Stop: 53910, Start Num: 11
Candidate Starts for Boilgate_74:
(Start: 11 @53689 has 1 MA's), (16, 53791), (19, 53815), (26, 53902),

Gene: Chancellor_86 Start: 52863, Stop: 53096, Start Num: 12
Candidate Starts for Chancellor_86:
(6, 52758), (8, 52824), (Start: 12 @52863 has 11 MA's), (14, 52887), (15, 52917), (20, 52986), (21, 53007), (22, 53031), (24, 53055), (25, 53061),

Gene: Ciao_84 Start: 47713, Stop: 47486, Start Num: 13
Candidate Starts for Ciao_84:
(Start: 13 @47713 has 25 MA's), (16, 47620), (17, 47611), (18, 47599), (19, 47596), (23, 47527), (27, 47503),

Gene: Corvo_89 Start: 50944, Stop: 50717, Start Num: 13
Candidate Starts for Corvo_89:
(Start: 13 @50944 has 25 MA's), (16, 50851), (17, 50842), (18, 50830), (19, 50827), (23, 50758), (27, 50734),

Gene: Fajezeel_88 Start: 49997, Stop: 49770, Start Num: 13
Candidate Starts for Fajezeel_88:

(Start: 13 @49997 has 25 MA's), (16, 49904), (17, 49895), (18, 49883), (19, 49880), (27, 49787),

Gene: Fionnbharth_86 Start: 53241, Stop: 53474, Start Num: 12
Candidate Starts for Fionnbharth_86:
(7, 53181), (8, 53202), (Start: 12 @53241 has 11 MA's), (14, 53265), (15, 53295), (20, 53364), (21, 53385), (22, 53409), (24, 53433), (25, 53439),

Gene: Greg_88 Start: 49997, Stop: 49770, Start Num: 13
Candidate Starts for Greg_88:
(Start: 13 @49997 has 25 MA's), (16, 49904), (17, 49895), (18, 49883), (19, 49880), (27, 49787),

Gene: Gwendoluna_87 Start: 49951, Stop: 49724, Start Num: 13
Candidate Starts for Gwendoluna_87:
(Start: 13 @49951 has 25 MA's), (16, 49858), (17, 49849), (18, 49837), (19, 49834), (27, 49741),

Gene: Hermia_78 Start: 46888, Stop: 46661, Start Num: 13
Candidate Starts for Hermia_78:
(Start: 13 @46888 has 25 MA's), (16, 46795), (17, 46786), (18, 46774), (19, 46771), (23, 46702), (27, 46678),

Gene: Homines_73 Start: 43510, Stop: 43283, Start Num: 13
Candidate Starts for Homines_73:
(Start: 13 @43510 has 25 MA's), (16, 43417), (17, 43408), (18, 43396), (19, 43393), (27, 43300),

Gene: IgnatiusPatJac_85 Start: 48115, Stop: 47888, Start Num: 13
Candidate Starts for IgnatiusPatJac_85:
(2, 48289), (3, 48262), (4, 48241), (5, 48235), (9, 48145), (Start: 13 @48115 has 25 MA's), (16, 48022), (17, 48013), (18, 48001), (19, 47998), (23, 47929), (27, 47905),

Gene: JF1_86 Start: 53159, Stop: 53392, Start Num: 12
Candidate Starts for JF1_86:
(6, 53054), (8, 53120), (Start: 12 @53159 has 11 MA's), (14, 53183), (15, 53213), (20, 53282), (21, 53303), (22, 53327), (24, 53351), (25, 53357),

Gene: Juliette_88 Start: 53272, Stop: 53505, Start Num: 12
Candidate Starts for Juliette_88:
(7, 53212), (8, 53233), (Start: 12 @53272 has 11 MA's), (14, 53296), (15, 53326), (20, 53395), (21, 53416), (22, 53440), (24, 53464), (25, 53470),

Gene: Kanely_90 Start: 50143, Stop: 49916, Start Num: 13
Candidate Starts for Kanely_90:
(Start: 13 @50143 has 25 MA's), (16, 50050), (17, 50041), (18, 50029), (19, 50026), (23, 49957), (27, 49933),

Gene: Killigrew_79 Start: 47304, Stop: 47074, Start Num: 13
Candidate Starts for Killigrew_79:
(1, 47583), (10, 47325), (Start: 13 @47304 has 25 MA's), (16, 47211), (18, 47190), (23, 47118), (28, 47085),

Gene: Malthus_87 Start: 52981, Stop: 53214, Start Num: 12
Candidate Starts for Malthus_87:
(7, 52921), (8, 52942), (Start: 12 @52981 has 11 MA's), (14, 53005), (15, 53035), (20, 53104), (21, 53125), (22, 53149), (24, 53173), (25, 53179),

Gene: MaryBeth_86 Start: 49419, Stop: 49192, Start Num: 13
Candidate Starts for MaryBeth_86:
(Start: 13 @49419 has 25 MA's), (16, 49326), (17, 49317), (18, 49305), (19, 49302), (23, 49233), (27, 49209),

Gene: MetalQZJ_84 Start: 49419, Stop: 49192, Start Num: 13
Candidate Starts for MetalQZJ_84:
(Start: 13 @49419 has 25 MA's), (16, 49326), (17, 49317), (18, 49305), (19, 49302), (23, 49233), (27, 49209),

Gene: Mitti_86 Start: 53137, Stop: 53370, Start Num: 12
Candidate Starts for Mitti_86:
(6, 53032), (8, 53098), (Start: 12 @53137 has 11 MA's), (14, 53161), (15, 53191), (20, 53260), (21, 53281), (22, 53305), (24, 53329), (25, 53335),

Gene: Papez_89 Start: 50166, Stop: 49939, Start Num: 13
Candidate Starts for Papez_89:
(Start: 13 @50166 has 25 MA's), (16, 50073), (17, 50064), (18, 50052), (19, 50049), (23, 49980), (27, 49956),

Gene: PinkPlastic_79 Start: 46931, Stop: 46704, Start Num: 13
Candidate Starts for PinkPlastic_79:
(Start: 13 @46931 has 25 MA's), (16, 46838), (17, 46829), (18, 46817), (19, 46814), (27, 46721),

Gene: Pippin_88 Start: 49296, Stop: 49069, Start Num: 13
Candidate Starts for Pippin_88:
(Start: 13 @49296 has 25 MA's), (16, 49203), (17, 49194), (18, 49182), (19, 49179), (23, 49110), (27, 49086),

Gene: Ruthiejr_88 Start: 53032, Stop: 53265, Start Num: 12
Candidate Starts for Ruthiejr_88:
(7, 52972), (8, 52993), (Start: 12 @53032 has 11 MA's), (14, 53056), (15, 53086), (20, 53155), (21, 53176), (22, 53200), (24, 53224), (25, 53230),

Gene: Slagathor_86 Start: 49813, Stop: 49586, Start Num: 13
Candidate Starts for Slagathor_86:
(Start: 13 @49813 has 25 MA's), (16, 49720), (18, 49699), (19, 49696), (23, 49627), (27, 49603),

Gene: Taquito_86 Start: 53486, Stop: 53719, Start Num: 12
Candidate Starts for Taquito_86:
(7, 53426), (8, 53447), (Start: 12 @53486 has 11 MA's), (14, 53510), (15, 53540), (20, 53609), (21, 53630), (22, 53654), (24, 53678), (25, 53684),

Gene: Watermelon_87 Start: 49867, Stop: 49685, Start Num: 13
Candidate Starts for Watermelon_87:
(Start: 13 @49867 has 25 MA's), (16, 49774), (17, 49765), (18, 49753), (19, 49750),

Gene: Wheeler_90 Start: 50720, Stop: 50493, Start Num: 13
Candidate Starts for Wheeler_90:
(Start: 13 @50720 has 25 MA's), (16, 50627), (17, 50618), (18, 50606), (19, 50603), (23, 50534), (27, 50510),

Gene: Wintermute_86 Start: 53209, Stop: 53442, Start Num: 12
Candidate Starts for Wintermute_86:
(7, 53149), (8, 53170), (Start: 12 @53209 has 11 MA's), (14, 53233), (15, 53263), (20, 53332), (21, 53353), (22, 53377), (24, 53401), (25, 53407),

Gene: Y10_82 Start: 53159, Stop: 53392, Start Num: 12
Candidate Starts for Y10_82:
(6, 53054), (8, 53120), (Start: 12 @53159 has 11 MA's), (14, 53183), (15, 53213), (20, 53282), (21, 53303), (22, 53327), (24, 53351), (25, 53357),

Gene: Y2_82 Start: 53159, Stop: 53392, Start Num: 12
Candidate Starts for Y2_82:
(6, 53054), (8, 53120), (Start: 12 @53159 has 11 MA's), (14, 53183), (15, 53213), (20, 53282), (21, 53303), (22, 53327), (24, 53351), (25, 53357),