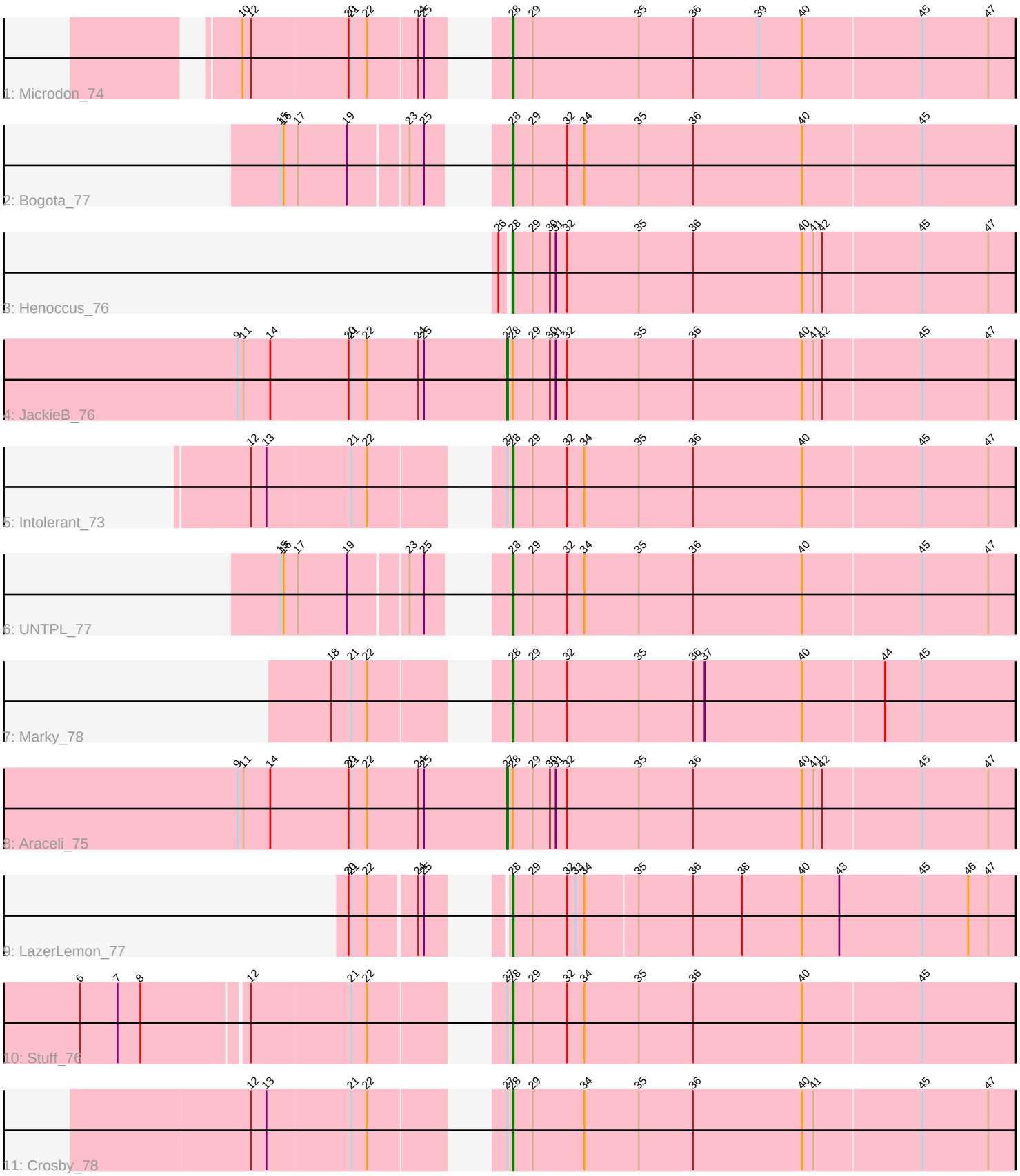
Zoomed Pham 168734



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 168734 Report

This analysis was run 07/09/24 on database version 566.

Pham number 168734 has 11 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Microdon_74
• Track 2 : Bogota_77
• Track 3 : Henoccus_76
• Track 4 : JackieB_76
• Track 5 : Intolerant_73
• Track 6 : UNTPL_77
• Track 7 : Marky_78
• Track 8 : Araceli_75
• Track 9 : LazerLemon_77
• Track 10 : Stuff_76
• Track 11 : Crosby_78

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

The start number called the most often in the published annotations is 28, it was called in 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bogota_77, Crosby_78, Henoccus_76, Intolerant_73, LazerLemon_77, Marky_78, Microdon_74, Stuff_76, UNTPL_77,

Genes that have the "Most Annotated" start but do not call it:
• Araceli_75, JackieB_76,

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

Summary by start number:

Start 27:
• Found in 5 of 11 (45.5%) of genes in pham
• Manual Annotations of this start: 2 of 11
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Araceli_75 (BH), JackieB_76 (BH),

Start 28:
• Found in 11 of 11 (100.0%) of genes in pham
• Manual Annotations of this start: 9 of 11
• Called 81.8% of time when present
• Phage (with cluster) where this start called: Bogota_77 (BH), Crosby_78 (BH), Henoccus_76 (BH), Intolerant_73 (BH), LazerLemon_77 (BH), Marky_78 (BH), Microdon_74 (BH), Stuff_76 (BH), UNTPL_77 (BH),

Summary by clusters:

There is one cluster represented in this pham: BH

Info for manual annotations of cluster BH:
•Start number 27 was manually annotated 2 times for cluster BH.
•Start number 28 was manually annotated 9 times for cluster BH.

Gene Information:

Gene: Araceli_75 Start: 51714, Stop: 52691, Start Num: 27
Candidate Starts for Araceli_75:
(4, 51114), (9, 51435), (11, 51441), (14, 51468), (20, 51549), (21, 51552), (22, 51567), (24, 51621), (25, 51627), (Start: 27 @51714 has 2 MA's), (Start: 28 @51720 has 9 MA's), (29, 51741), (30, 51759), (31, 51765), (32, 51777), (35, 51852), (36, 51909), (40, 52023), (41, 52035), (42, 52044), (45, 52146), (47, 52215), (49, 52260), (51, 52275), (54, 52317), (56, 52359), (58, 52374), (59, 52395), (60, 52425), (66, 52545), (67, 52566), (68, 52611), (69, 52620),

Gene: Bogota_77 Start: 51446, Stop: 52414, Start Num: 28
Candidate Starts for Bogota_77:
(15, 51263), (16, 51266), (17, 51281), (19, 51332), (23, 51389), (25, 51404), (Start: 28 @51446 has 9 MA's), (29, 51467), (32, 51503), (34, 51521), (35, 51578), (36, 51635), (40, 51749), (45, 51872), (52, 52016), (53, 52034), (54, 52043), (59, 52121), (60, 52151), (61, 52154), (65, 52244), (66, 52271), (74, 52403),

Gene: Crosby_78 Start: 51305, Stop: 52273, Start Num: 28
Candidate Starts for Crosby_78:
(12, 51086), (13, 51101), (21, 51188), (22, 51203), (Start: 27 @51299 has 2 MA's), (Start: 28 @51305 has 9 MA's), (29, 51326), (34, 51380), (35, 51437), (36, 51494), (40, 51608), (41, 51620), (45, 51731), (47, 51800), (52, 51875), (53, 51893), (54, 51902), (59, 51980), (61, 52013), (65, 52103), (66, 52130), (69, 52205), (74, 52262),

Gene: Henoccus_76 Start: 51811, Stop: 52782, Start Num: 28
Candidate Starts for Henoccus_76:
(26, 51802), (Start: 28 @51811 has 9 MA's), (29, 51832), (30, 51850), (31, 51856), (32, 51868), (35, 51943), (36, 52000), (40, 52114), (41, 52126), (42, 52135), (45, 52237), (47, 52306), (48, 52339), (49, 52351), (51, 52366), (54, 52408), (56, 52450), (58, 52465), (59, 52486), (60, 52516), (66, 52636), (67, 52657), (68, 52702), (69, 52711), (73, 52747),

Gene: Intolerant_73 Start: 50923, Stop: 51891, Start Num: 28
Candidate Starts for Intolerant_73:

(12, 50704), (13, 50719), (21, 50806), (22, 50821), (Start: 27 @50917 has 2 MA's), (Start: 28 @50923 has 9 MA's), (29, 50944), (32, 50980), (34, 50998), (35, 51055), (36, 51112), (40, 51226), (45, 51349), (47, 51418), (48, 51451), (52, 51493), (53, 51511), (54, 51520), (59, 51598), (61, 51631), (65, 51721), (66, 51748), (74, 51880),

Gene: JackieB_76 Start: 51580, Stop: 52557, Start Num: 27
Candidate Starts for JackieB_76:
(4, 50980), (9, 51301), (11, 51307), (14, 51334), (20, 51415), (21, 51418), (22, 51433), (24, 51487), (25, 51493), (Start: 27 @51580 has 2 MA's), (Start: 28 @51586 has 9 MA's), (29, 51607), (30, 51625), (31, 51631), (32, 51643), (35, 51718), (36, 51775), (40, 51889), (41, 51901), (42, 51910), (45, 52012), (47, 52081), (49, 52126), (51, 52141), (54, 52183), (56, 52225), (58, 52240), (59, 52261), (60, 52291), (66, 52411), (67, 52432), (68, 52477), (69, 52486), (73, 52522),

Gene: LazerLemon_77 Start: 52080, Stop: 53042, Start Num: 28
Candidate Starts for LazerLemon_77:
(20, 51969), (21, 51972), (22, 51987), (24, 52035), (25, 52041), (Start: 28 @52080 has 9 MA's), (29, 52101), (32, 52137), (33, 52146), (34, 52155), (35, 52209), (36, 52266), (38, 52317), (40, 52380), (43, 52419), (45, 52506), (46, 52554), (47, 52575), (49, 52620), (55, 52689), (57, 52728), (60, 52785), (61, 52788), (62, 52809), (63, 52818), (64, 52860), (66, 52896), (67, 52917), (69, 52971), (71, 52989),

Gene: Marky_78 Start: 51336, Stop: 52307, Start Num: 28
Candidate Starts for Marky_78:
(18, 51198), (21, 51219), (22, 51234), (Start: 28 @51336 has 9 MA's), (29, 51357), (32, 51393), (35, 51468), (36, 51525), (37, 51537), (40, 51639), (44, 51723), (45, 51762), (50, 51885), (53, 51924), (59, 52011), (61, 52044), (66, 52161), (70, 52251), (72, 52269),

Gene: Microdon_74 Start: 50395, Stop: 51366, Start Num: 28
Candidate Starts for Microdon_74:
(10, 50167), (12, 50176), (20, 50275), (21, 50278), (22, 50293), (24, 50344), (25, 50350), (Start: 28 @50395 has 9 MA's), (29, 50416), (35, 50527), (36, 50584), (39, 50653), (40, 50698), (45, 50821), (47, 50890), (52, 50965), (53, 50983), (54, 50992), (59, 51070), (61, 51103), (65, 51193), (66, 51220), (69, 51295), (74, 51352),

Gene: Stuff_76 Start: 51284, Stop: 52252, Start Num: 28
Candidate Starts for Stuff_76:
(1, 50432), (2, 50522), (3, 50714), (5, 50747), (6, 50897), (7, 50936), (8, 50960), (12, 51065), (21, 51167), (22, 51182), (Start: 27 @51278 has 2 MA's), (Start: 28 @51284 has 9 MA's), (29, 51305), (32, 51341), (34, 51359), (35, 51416), (36, 51473), (40, 51587), (45, 51710), (50, 51833), (52, 51854), (53, 51872), (54, 51881), (59, 51959), (61, 51992), (65, 52082), (66, 52109), (69, 52184), (74, 52241),

Gene: UNTPL_77 Start: 51758, Stop: 52726, Start Num: 28
Candidate Starts for UNTPL_77:
(15, 51575), (16, 51578), (17, 51593), (19, 51644), (23, 51701), (25, 51716), (Start: 28 @51758 has 9 MA's), (29, 51779), (32, 51815), (34, 51833), (35, 51890), (36, 51947), (40, 52061), (45, 52184), (47, 52253), (52, 52328), (53, 52346), (54, 52355), (59, 52433), (61, 52466), (65, 52556), (66, 52583), (74, 52715),