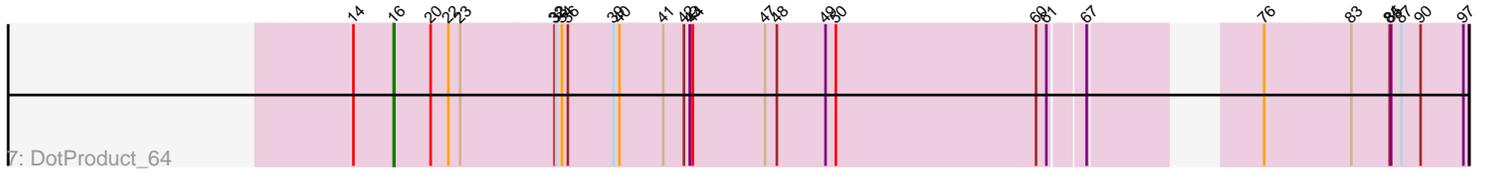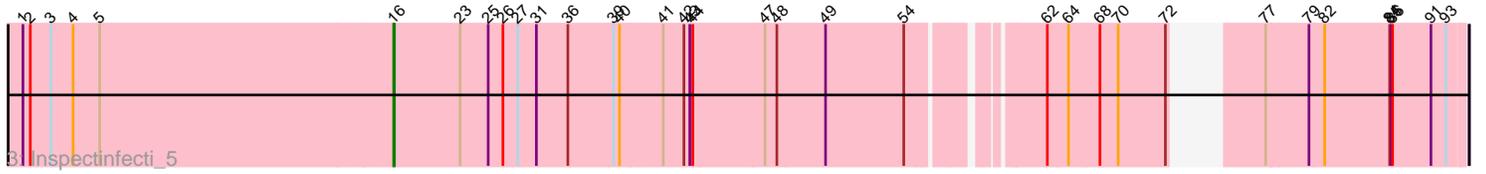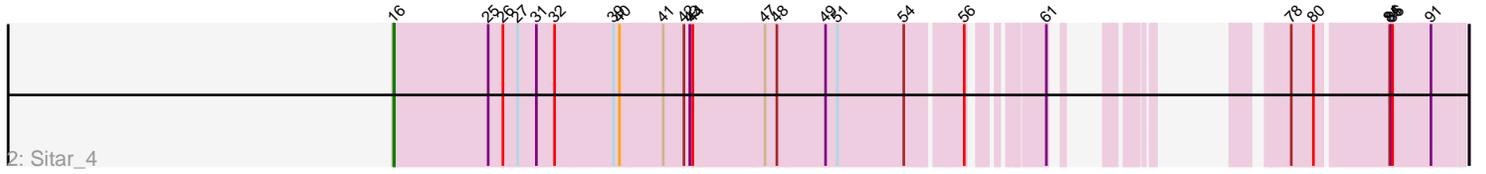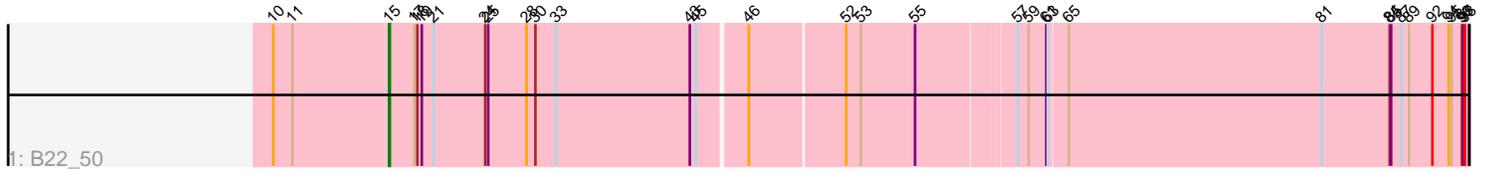# Pham 284255

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 284255 Report

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

Pham number 284255 has 17 members, 0 are drafts.

Phages represented in each track:
• Track 1 : B22_50
• Track 2 : Sitar_4
• Track 3 : Inspectinfecti_5
• Track 4 : Daenerys_70, OldBen_68, PHappiness_71
• Track 5 : Deb65_64, Nimbo_63, Geralt_64
• Track 6 : Florinda_80, Girafales_77, Quico_77
• Track 7 : DotProduct_64
• Track 8 : Babsiella_54
• Track 9 : Philonius_55, Aggie_53, Silvy_53

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

The start number called the most often in the published annotations is 16, it was called in 13 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aggie_53, Babsiella_54, Daenerys_70, DotProduct_64, Florinda_80, Girafales_77, Inspectinfecti_5, OldBen_68, PHappiness_71, Philonius_55, Quico_77, Silvy_53, Sitar_4,

Genes that have the "Most Annotated" start but do not call it:
• Deb65_64, Geralt_64, Nimbo_63,

Genes that do not have the "Most Annotated" start:
• B22_50,

Summary by start number:

Start 8:
• Found in 3 of 17 (17.6%) of genes in pham
• Manual Annotations of this start: 3 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Deb65_64 (F1), Geralt_64 (F1), Nimbo_63 (F1),

Start 15:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: B22_50 (BW),

Start 16:
• Found in 16 of 17 (94.1%) of genes in pham
• Manual Annotations of this start: 13 of 17
• Called 81.2% of time when present
• Phage (with cluster) where this start called: Aggie_53 (N), Babsiella_54 (I1),
Daenerys_70 (F1), DotProduct_64 (F1), Florinda_80 (F1), Girafales_77 (F1),
Inspectinfecti_5 (DE2), OldBen_68 (F1), PHappiness_71 (F1), Philonius_55 (N),
Quico_77 (F1), Silvy_53 (N), Sitar_4 (DE1),

Summary by clusters:

There are 6 clusters represented in this pham: F1, I1, DE1, DE2, N, BW,

Info for manual annotations of cluster BW:
•Start number 15 was manually annotated 1 time for cluster BW.

Info for manual annotations of cluster DE1:
•Start number 16 was manually annotated 1 time for cluster DE1.

Info for manual annotations of cluster DE2:
•Start number 16 was manually annotated 1 time for cluster DE2.

Info for manual annotations of cluster F1:
•Start number 8 was manually annotated 3 times for cluster F1.
•Start number 16 was manually annotated 7 times for cluster F1.

Info for manual annotations of cluster I1:
•Start number 16 was manually annotated 1 time for cluster I1.

Info for manual annotations of cluster N:
•Start number 16 was manually annotated 3 times for cluster N.

Gene Information:

Gene: Aggie_53 Start: 35734, Stop: 37386, Start Num: 16
Candidate Starts for Aggie_53:
(6, 35296), (14, 35668), (Start: 16 @35734 has 13 MA's), (20, 35809), (22, 35845), (23, 35869), (26,
35956), (29, 36007), (32, 36055), (33, 36058), (37, 36106), (38, 36127), (60, 36757), (61, 36778), (66,
36814), (67, 36838), (69, 36883), (84, 37234), (85, 37237), (88, 37267), (90, 37294), (97, 37375),

Gene: B22_50 Start: 30940, Stop: 33039, Start Num: 15
Candidate Starts for B22_50:
(10, 30721), (11, 30760), (Start: 15 @30940 has 1 MA's), (17, 30991), (18, 30997), (19, 31006), (21,
31030), (24, 31135), (25, 31141), (28, 31219), (30, 31237), (33, 31279), (43, 31543), (45, 31555), (46,

31648), (52, 31831), (53, 31861), (55, 31963), (57, 32143), (59, 32164), (61, 32200), (63, 32203), (65, 32239), (81, 32749), (84, 32884), (85, 32887), (87, 32908), (89, 32917), (92, 32965), (94, 32998), (95, 33004), (96, 33025), (97, 33028), (98, 33031),

Gene: Babsiella_54 Start: 36714, Stop: 38561, Start Num: 16
Candidate Starts for Babsiella_54:
(14, 36648), (Start: 16 @36714 has 13 MA's), (20, 36789), (22, 36825), (23, 36849), (32, 37035), (33, 37038), (35, 37059), (37, 37086), (38, 37107), (60, 37737), (61, 37758), (73, 37974), (75, 38139), (83, 38331), (84, 38409), (85, 38412), (88, 38442), (90, 38469), (97, 38550),

Gene: Daenerys_70 Start: 45291, Stop: 46922, Start Num: 16
Candidate Starts for Daenerys_70:
(14, 45210), (Start: 16 @45291 has 13 MA's), (20, 45366), (22, 45402), (23, 45426), (26, 45513), (29, 45564), (32, 45612), (33, 45615), (37, 45663), (38, 45684), (58, 46293), (61, 46314), (66, 46350), (67, 46374), (69, 46419), (84, 46770), (85, 46773), (87, 46794), (88, 46803), (90, 46830), (97, 46911),

Gene: Deb65_64 Start: 42619, Stop: 44643, Start Num: 8
Candidate Starts for Deb65_64:
(7, 42574), (Start: 8 @42619 has 3 MA's), (9, 42688), (12, 42871), (13, 42928), (Start: 16 @43012 has 13 MA's), (20, 43087), (22, 43123), (23, 43147), (26, 43234), (29, 43285), (32, 43333), (33, 43336), (37, 43384), (38, 43405), (58, 44014), (61, 44035), (66, 44071), (67, 44095), (69, 44140), (84, 44491), (85, 44494), (87, 44515), (88, 44524), (90, 44551), (97, 44632),

Gene: DotProduct_64 Start: 41819, Stop: 43810, Start Num: 16
Candidate Starts for DotProduct_64:
(14, 41753), (Start: 16 @41819 has 13 MA's), (20, 41894), (22, 41930), (23, 41954), (32, 42140), (33, 42143), (34, 42155), (36, 42167), (39, 42257), (40, 42269), (41, 42356), (42, 42398), (43, 42410), (44, 42416), (47, 42560), (48, 42584), (49, 42677), (50, 42698), (60, 43097), (61, 43118), (67, 43178), (76, 43418), (83, 43580), (84, 43658), (85, 43661), (87, 43682), (90, 43718), (97, 43799),

Gene: Florinda_80 Start: 44991, Stop: 46736, Start Num: 16
Candidate Starts for Florinda_80:
(14, 44925), (Start: 16 @44991 has 13 MA's), (20, 45066), (22, 45102), (23, 45126), (26, 45213), (32, 45312), (33, 45315), (35, 45336), (37, 45363), (38, 45384), (60, 46014), (61, 46035), (71, 46170), (74, 46251), (84, 46584), (85, 46587), (87, 46608), (88, 46617), (97, 46725),

Gene: Geralt_64 Start: 42618, Stop: 44642, Start Num: 8
Candidate Starts for Geralt_64:
(7, 42573), (Start: 8 @42618 has 3 MA's), (9, 42687), (12, 42870), (13, 42927), (Start: 16 @43011 has 13 MA's), (20, 43086), (22, 43122), (23, 43146), (26, 43233), (29, 43284), (32, 43332), (33, 43335), (37, 43383), (38, 43404), (58, 44013), (61, 44034), (66, 44070), (67, 44094), (69, 44139), (84, 44490), (85, 44493), (87, 44514), (88, 44523), (90, 44550), (97, 44631),

Gene: Girafales_77 Start: 44782, Stop: 46527, Start Num: 16
Candidate Starts for Girafales_77:
(14, 44716), (Start: 16 @44782 has 13 MA's), (20, 44857), (22, 44893), (23, 44917), (26, 45004), (32, 45103), (33, 45106), (35, 45127), (37, 45154), (38, 45175), (60, 45805), (61, 45826), (71, 45961), (74, 46042), (84, 46375), (85, 46378), (87, 46399), (88, 46408), (97, 46516),

Gene: Inspectinfecti_5 Start: 2791, Stop: 4749, Start Num: 16
Candidate Starts for Inspectinfecti_5:
(1, 2047), (2, 2062), (3, 2104), (4, 2149), (5, 2203), (Start: 16 @2791 has 13 MA's), (23, 2926), (25, 2983), (26, 3013), (27, 3040), (31, 3076), (36, 3139), (39, 3229), (40, 3241), (41, 3328), (42, 3370), (43,

3382), (44, 3388), (47, 3532), (48, 3556), (49, 3652), (54, 3808), (62, 4033), (64, 4075), (68, 4138), (70, 4174), (72, 4270), (77, 4360), (79, 4444), (82, 4471), (84, 4603), (85, 4606), (86, 4609), (91, 4687), (93, 4717),

Gene: Nimbo_63 Start: 42621, Stop: 44645, Start Num: 8
Candidate Starts for Nimbo_63:
(7, 42576), (Start: 8 @42621 has 3 MA's), (9, 42690), (12, 42873), (13, 42930), (Start: 16 @43014 has 13 MA's), (20, 43089), (22, 43125), (23, 43149), (26, 43236), (29, 43287), (32, 43335), (33, 43338), (37, 43386), (38, 43407), (58, 44016), (61, 44037), (66, 44073), (67, 44097), (69, 44142), (84, 44493), (85, 44496), (87, 44517), (88, 44526), (90, 44553), (97, 44634),

Gene: OldBen_68 Start: 44406, Stop: 46037, Start Num: 16
Candidate Starts for OldBen_68:
(14, 44325), (Start: 16 @44406 has 13 MA's), (20, 44481), (22, 44517), (23, 44541), (26, 44628), (29, 44679), (32, 44727), (33, 44730), (37, 44778), (38, 44799), (58, 45408), (61, 45429), (66, 45465), (67, 45489), (69, 45534), (84, 45885), (85, 45888), (87, 45909), (88, 45918), (90, 45945), (97, 46026),

Gene: PHappiness_71 Start: 45235, Stop: 46866, Start Num: 16
Candidate Starts for PHappiness_71:
(14, 45154), (Start: 16 @45235 has 13 MA's), (20, 45310), (22, 45346), (23, 45370), (26, 45457), (29, 45508), (32, 45556), (33, 45559), (37, 45607), (38, 45628), (58, 46237), (61, 46258), (66, 46294), (67, 46318), (69, 46363), (84, 46714), (85, 46717), (87, 46738), (88, 46747), (90, 46774), (97, 46855),

Gene: Philonius_55 Start: 35263, Stop: 36915, Start Num: 16
Candidate Starts for Philonius_55:
(6, 34825), (14, 35197), (Start: 16 @35263 has 13 MA's), (20, 35338), (22, 35374), (23, 35398), (26, 35485), (29, 35536), (32, 35584), (33, 35587), (37, 35635), (38, 35656), (60, 36286), (61, 36307), (66, 36343), (67, 36367), (69, 36412), (84, 36763), (85, 36766), (88, 36796), (90, 36823), (97, 36904),

Gene: Quico_77 Start: 44811, Stop: 46556, Start Num: 16
Candidate Starts for Quico_77:
(14, 44745), (Start: 16 @44811 has 13 MA's), (20, 44886), (22, 44922), (23, 44946), (26, 45033), (32, 45132), (33, 45135), (35, 45156), (37, 45183), (38, 45204), (60, 45834), (61, 45855), (71, 45990), (74, 46071), (84, 46404), (85, 46407), (87, 46428), (88, 46437), (97, 46545),

Gene: Silvy_53 Start: 35734, Stop: 37386, Start Num: 16
Candidate Starts for Silvy_53:
(6, 35296), (14, 35668), (Start: 16 @35734 has 13 MA's), (20, 35809), (22, 35845), (23, 35869), (26, 35956), (29, 36007), (32, 36055), (33, 36058), (37, 36106), (38, 36127), (60, 36757), (61, 36778), (66, 36814), (67, 36838), (69, 36883), (84, 37234), (85, 37237), (88, 37267), (90, 37294), (97, 37375),

Gene: Sitar_4 Start: 2434, Stop: 4143, Start Num: 16
Candidate Starts for Sitar_4:
(Start: 16 @2434 has 13 MA's), (25, 2626), (26, 2656), (27, 2683), (31, 2719), (32, 2755), (39, 2872), (40, 2884), (41, 2971), (42, 3013), (43, 3025), (44, 3031), (47, 3175), (48, 3199), (49, 3295), (51, 3316), (54, 3451), (56, 3556), (61, 3652), (78, 3820), (80, 3862), (84, 3997), (85, 4000), (86, 4003), (91, 4081),