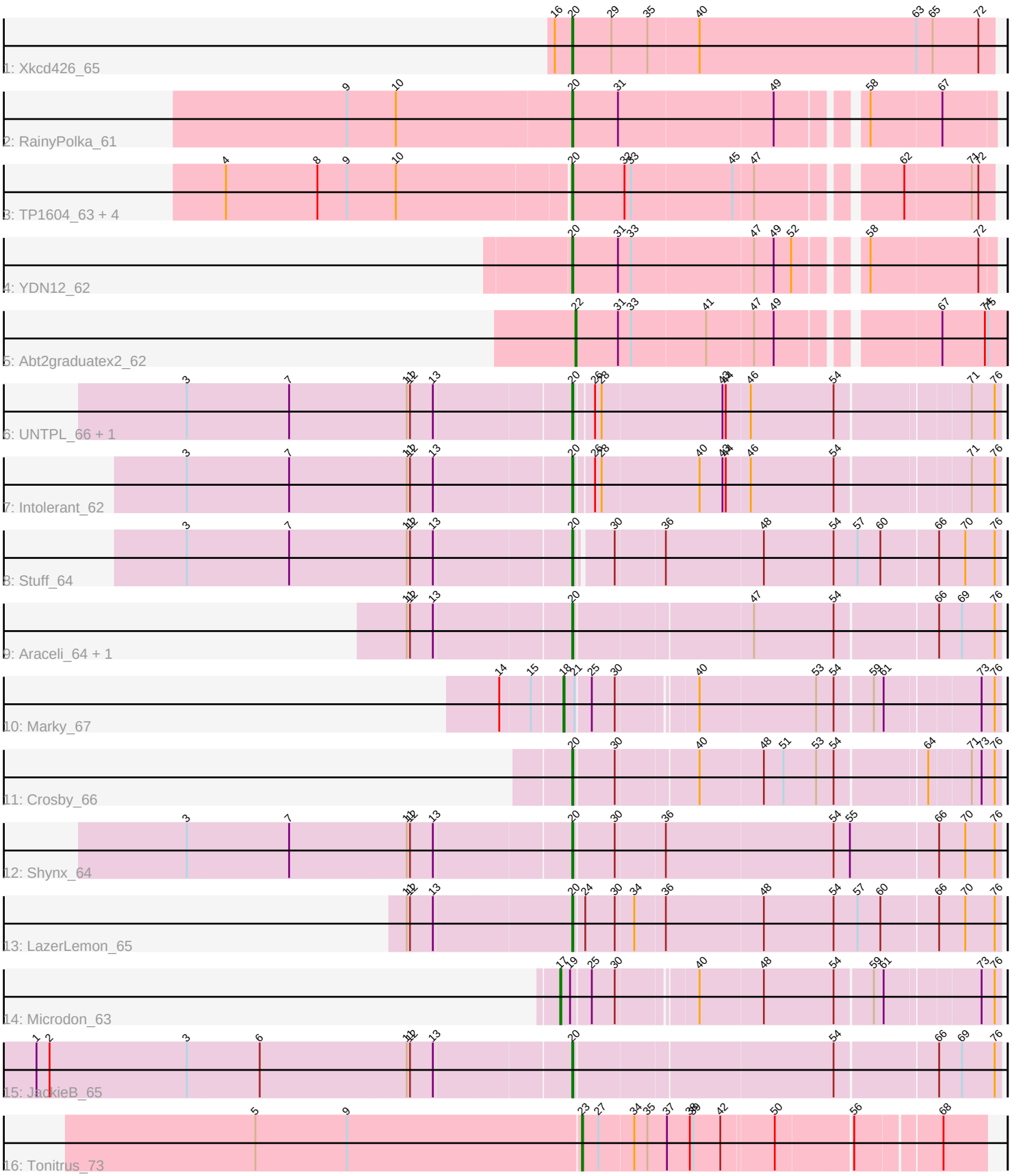
Pham 335275


1: Xkcd426_65
2: RainyPolka_61
3: TP1604_63 + 4
4: YDN12_62
5: Abt2graduatex2_62
6: UNTPL_66 + 1
7: Intolerant_62
8: Stuff_64
9: Araceli_64 + 1
10: Marky_67
11: Crosby_66
12: Shynx_64
13: LazerLemon_65
14: Microdon_63
15: JackieB_65
16: Tonitrus_73

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 335275 Report

This analysis was run 11/14/26 on database version 672.

Pham number 335275 has 22 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Xkcd426_65
• Track 2 : RainyPolka_61
• Track 3 : TP1604_63, BayC_63, Salete_63, Maih_62, BabyGotBac_64
• Track 4 : YDN12_62
• Track 5 : Abt2graduatex2_62
• Track 6 : UNTPL_66, Bogota_65
• Track 7 : Intolerant_62
• Track 8 : Stuff_64
• Track 9 : Araceli_64, Henoccus_65
• Track 10 : Marky_67
• Track 11 : Crosby_66
• Track 12 : Shynx_64
• Track 13 : LazerLemon_65
• Track 14 : Microdon_63
• Track 15 : JackieB_65
• Track 16 : Tonitrus_73

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

The start number called the most often in the published annotations is 20, it was called in 18 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Araceli_64, BabyGotBac_64, BayC_63, Bogota_65, Crosby_66, Henoccus_65, Intolerant_62, JackieB_65, LazerLemon_65, Maih_62, RainyPolka_61, Salete_63, Shynx_64, Stuff_64, TP1604_63, UNTPL_66, Xkcd426_65, YDN12_62,

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

Genes that do not have the "Most Annotated" start:
• Abt2graduatex2_62, Marky_67, Microdon_63, Tonitrus_73,

Summary by start number:

Start 17:
• Found in 1 of 22 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Microdon_63 (BH),

Start 18:
• Found in 1 of 22 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Marky_67 (BH),

Start 20:
• Found in 18 of 22 (81.8%) of genes in pham
• Manual Annotations of this start: 18 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Araceli_64 (BH), BabyGotBac_64 (BG), BayC_63 (BG), Bogota_65 (BH), Crosby_66 (BH), Henoccus_65 (BH), Intolerant_62 (BH), JackieB_65 (BH), LazerLemon_65 (BH), Maih_62 (BG), RainyPolka_61 (BG), Salete_63 (BG), Shynx_64 (BH), Stuff_64 (BH), TP1604_63 (BG), UNTPL_66 (BH), Xkcd426_65 (BG), YDN12_62 (BG),

Start 22:
• Found in 1 of 22 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abt2graduatex2_62 (BG),

Start 23:
• Found in 1 of 22 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tonitrus_73 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, BG, BH,

Info for manual annotations of cluster BG:
•Start number 20 was manually annotated 8 times for cluster BG.
•Start number 22 was manually annotated 1 time for cluster BG.

Info for manual annotations of cluster BH:
•Start number 17 was manually annotated 1 time for cluster BH.
•Start number 18 was manually annotated 1 time for cluster BH.
•Start number 20 was manually annotated 10 times for cluster BH.

Gene Information:

Gene: Abt2graduatex2_62 Start: 50749, Stop: 51114, Start Num: 22

Candidate Starts for Abt2graduatex2_62:
(Start: 22 @50749 has 1 MA's), (31, 50788), (33, 50800), (41, 50866), (47, 50908), (49, 50926), (67, 51055), (74, 51094), (75, 51097),

Gene: Araceli_64 Start: 46836, Stop: 47207, Start Num: 20
Candidate Starts for Araceli_64:
(11, 46692), (12, 46695), (13, 46716), (Start: 20 @46836 has 18 MA's), (47, 46989), (54, 47061), (66, 47151), (69, 47172), (76, 47202),

Gene: BabyGotBac_64 Start: 50851, Stop: 51207, Start Num: 20
Candidate Starts for BabyGotBac_64:
(4, 50542), (8, 50626), (9, 50653), (10, 50698), (Start: 20 @50851 has 18 MA's), (32, 50899), (33, 50905), (45, 50995), (47, 51013), (62, 51127), (71, 51187), (72, 51193),

Gene: BayC_63 Start: 50929, Stop: 51285, Start Num: 20
Candidate Starts for BayC_63:
(4, 50620), (8, 50704), (9, 50731), (10, 50776), (Start: 20 @50929 has 18 MA's), (32, 50977), (33, 50983), (45, 51073), (47, 51091), (62, 51205), (71, 51265), (72, 51271),

Gene: Bogota_65 Start: 47089, Stop: 47457, Start Num: 20
Candidate Starts for Bogota_65:
(3, 46747), (7, 46840), (11, 46945), (12, 46948), (13, 46969), (Start: 20 @47089 has 18 MA's), (26, 47104), (28, 47110), (43, 47218), (44, 47221), (46, 47242), (54, 47317), (71, 47431), (76, 47452),

Gene: Crosby_66 Start: 47106, Stop: 47471, Start Num: 20
Candidate Starts for Crosby_66:
(Start: 20 @47106 has 18 MA's), (30, 47142), (40, 47211), (48, 47268), (51, 47286), (53, 47316), (54, 47331), (64, 47409), (71, 47445), (73, 47454), (76, 47466),

Gene: Henoccus_65 Start: 46848, Stop: 47219, Start Num: 20
Candidate Starts for Henoccus_65:
(11, 46704), (12, 46707), (13, 46728), (Start: 20 @46848 has 18 MA's), (47, 47001), (54, 47073), (66, 47163), (69, 47184), (76, 47214),

Gene: Intolerant_62 Start: 46794, Stop: 47162, Start Num: 20
Candidate Starts for Intolerant_62:
(3, 46452), (7, 46545), (11, 46650), (12, 46653), (13, 46674), (Start: 20 @46794 has 18 MA's), (26, 46809), (28, 46815), (40, 46902), (43, 46923), (44, 46926), (46, 46947), (54, 47022), (71, 47136), (76, 47157),

Gene: JackieB_65 Start: 46686, Stop: 47057, Start Num: 20
Candidate Starts for JackieB_65:
(1, 46206), (2, 46218), (3, 46344), (6, 46410), (11, 46542), (12, 46545), (13, 46566), (Start: 20 @46686 has 18 MA's), (54, 46911), (66, 47001), (69, 47022), (76, 47052),

Gene: LazerLemon_65 Start: 47533, Stop: 47910, Start Num: 20
Candidate Starts for LazerLemon_65:
(11, 47386), (12, 47389), (13, 47410), (Start: 20 @47533 has 18 MA's), (24, 47542), (30, 47569), (34, 47584), (36, 47611), (48, 47698), (54, 47761), (57, 47782), (60, 47803), (66, 47854), (70, 47878), (76, 47905),

Gene: Maih_62 Start: 50942, Stop: 51298, Start Num: 20
Candidate Starts for Maih_62:

(4, 50633), (8, 50717), (9, 50744), (10, 50789), (Start: 20 @50942 has 18 MA's), (32, 50990), (33, 50996), (45, 51086), (47, 51104), (62, 51218), (71, 51278), (72, 51284),

Gene: Marky_67 Start: 47205, Stop: 47570, Start Num: 18
Candidate Starts for Marky_67:
(14, 47151), (15, 47178), (Start: 18 @47205 has 1 MA's), (21, 47214), (25, 47226), (30, 47247), (40, 47310), (53, 47415), (54, 47430), (59, 47463), (61, 47472), (73, 47553), (76, 47565),

Gene: Microdon_63 Start: 46363, Stop: 46731, Start Num: 17
Candidate Starts for Microdon_63:
(Start: 17 @46363 has 1 MA's), (19, 46372), (25, 46387), (30, 46408), (40, 46471), (48, 46528), (54, 46591), (59, 46624), (61, 46633), (73, 46714), (76, 46726),

Gene: RainyPolka_61 Start: 50125, Stop: 50481, Start Num: 20
Candidate Starts for RainyPolka_61:
(9, 49924), (10, 49969), (Start: 20 @50125 has 18 MA's), (31, 50167), (49, 50305), (58, 50371), (67, 50434),

Gene: Salete_63 Start: 50929, Stop: 51285, Start Num: 20
Candidate Starts for Salete_63:
(4, 50620), (8, 50704), (9, 50731), (10, 50776), (Start: 20 @50929 has 18 MA's), (32, 50977), (33, 50983), (45, 51073), (47, 51091), (62, 51205), (71, 51265), (72, 51271),

Gene: Shynx_64 Start: 47020, Stop: 47397, Start Num: 20
Candidate Starts for Shynx_64:
(3, 46678), (7, 46771), (11, 46876), (12, 46879), (13, 46900), (Start: 20 @47020 has 18 MA's), (30, 47056), (36, 47098), (54, 47248), (55, 47263), (66, 47341), (70, 47365), (76, 47392),

Gene: Stuff_64 Start: 47067, Stop: 47438, Start Num: 20
Candidate Starts for Stuff_64:
(3, 46725), (7, 46818), (11, 46923), (12, 46926), (13, 46947), (Start: 20 @47067 has 18 MA's), (30, 47097), (36, 47139), (48, 47226), (54, 47289), (57, 47310), (60, 47331), (66, 47382), (70, 47406), (76, 47433),

Gene: TP1604_63 Start: 50854, Stop: 51210, Start Num: 20
Candidate Starts for TP1604_63:
(4, 50545), (8, 50629), (9, 50656), (10, 50701), (Start: 20 @50854 has 18 MA's), (32, 50902), (33, 50908), (45, 50998), (47, 51016), (62, 51130), (71, 51190), (72, 51196),

Gene: Tonitrus_73 Start: 52979, Stop: 53323, Start Num: 23
Candidate Starts for Tonitrus_73:
(5, 52682), (9, 52766), (Start: 23 @52979 has 1 MA's), (27, 52994), (34, 53024), (35, 53036), (37, 53054), (38, 53075), (39, 53078), (42, 53102), (50, 53147), (56, 53213), (68, 53285),

Gene: UNTPL_66 Start: 47124, Stop: 47492, Start Num: 20
Candidate Starts for UNTPL_66:
(3, 46782), (7, 46875), (11, 46980), (12, 46983), (13, 47004), (Start: 20 @47124 has 18 MA's), (26, 47139), (28, 47145), (43, 47253), (44, 47256), (46, 47277), (54, 47352), (71, 47466), (76, 47487),

Gene: Xkcd426_65 Start: 56067, Stop: 56450, Start Num: 20
Candidate Starts for Xkcd426_65:
(16, 56052), (Start: 20 @56067 has 18 MA's), (29, 56103), (35, 56136), (40, 56181), (63, 56379), (65, 56394), (72, 56436),

Gene: YDN12_62 Start: 49658, Stop: 50014, Start Num: 20
Candidate Starts for YDN12_62:
(Start: 20 @49658 has 18 MA's), (31, 49700), (33, 49712), (47, 49820), (49, 49838), (52, 49853), (58, 49904), (72, 50000),