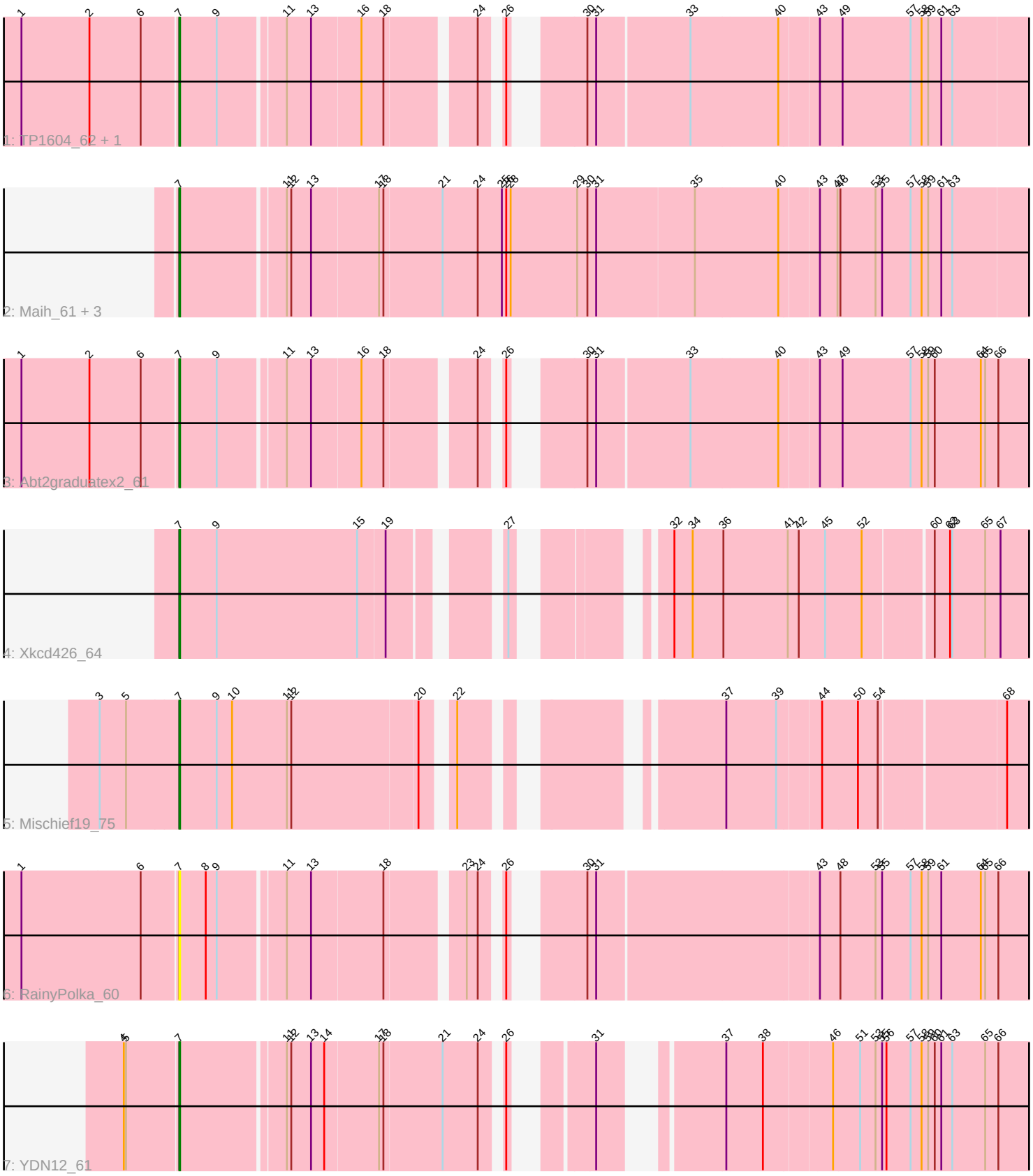
Pham 5702


1: TP1604_62 + 1
2: Maih_61 + 3
3: Abt2graduatex2_61
4: Xkcd426_64
5: Mischief19_75
6: RainyPolka_60
7: YDN12_61

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 5702 Report

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

Pham number 5702 has 11 members, 1 are drafts.

Phages represented in each track:
• Track 1 : TP1604_62, BabyGotBac_63
• Track 2 : Maih_61, BayC_62, Asis_62, Salete_62
• Track 3 : Abt2graduatex2_61
• Track 4 : Xkcd426_64
• Track 5 : Mischief19_75
• Track 6 : RainyPolka_60
• Track 7 : YDN12_61

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

The start number called the most often in the published annotations is 7, it was called in 10 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abt2graduatex2_61, Asis_62, BabyGotBac_63, BayC_62, Maih_61, Mischief19_75, RainyPolka_60, Salete_62, TP1604_62, Xkcd426_64, YDN12_61,

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

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

Summary by start number:

Start 7:
• Found in 11 of 11 (100.0%) of genes in pham
• Manual Annotations of this start: 10 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abt2graduatex2_61 (BG), Asis_62 (BG), BabyGotBac_63 (BG), BayC_62 (BG), Maih_61 (BG), Mischief19_75 (BG), RainyPolka_60 (BG), Salete_62 (BG), TP1604_62 (BG), Xkcd426_64 (BG), YDN12_61 (BG),

Summary by clusters:

There is one cluster represented in this pham: BG

Info for manual annotations of cluster BG:
•Start number 7 was manually annotated 10 times for cluster BG.

Gene Information:

Gene: Abt2graduatex2_61 Start: 49612, Stop: 50676, Start Num: 7
Candidate Starts for Abt2graduatex2_61:
(1, 49402), (2, 49495), (6, 49564), (Start: 7 @49612 has 10 MA's), (9, 49663), (11, 49747), (13, 49780), (16, 49846), (18, 49876), (24, 49984), (26, 50005), (30, 50071), (31, 50083), (33, 50206), (40, 50323), (43, 50371), (49, 50401), (57, 50494), (58, 50509), (59, 50518), (60, 50527), (64, 50590), (65, 50596), (66, 50611),

Gene: Asis_62 Start: 49717, Stop: 50862, Start Num: 7
Candidate Starts for Asis_62:
(Start: 7 @49717 has 10 MA's), (11, 49852), (12, 49858), (13, 49885), (17, 49975), (18, 49981), (21, 50059), (24, 50107), (25, 50140), (26, 50146), (28, 50152), (29, 50242), (30, 50254), (31, 50266), (35, 50398), (40, 50509), (43, 50557), (47, 50581), (48, 50584), (53, 50632), (55, 50641), (57, 50680), (58, 50695), (59, 50704), (61, 50722), (63, 50737),

Gene: BabyGotBac_63 Start: 49724, Stop: 50788, Start Num: 7
Candidate Starts for BabyGotBac_63:
(1, 49514), (2, 49607), (6, 49676), (Start: 7 @49724 has 10 MA's), (9, 49775), (11, 49859), (13, 49892), (16, 49958), (18, 49988), (24, 50096), (26, 50117), (30, 50183), (31, 50195), (33, 50318), (40, 50435), (43, 50483), (49, 50513), (57, 50606), (58, 50621), (59, 50630), (61, 50648), (63, 50663),

Gene: BayC_62 Start: 49721, Stop: 50866, Start Num: 7
Candidate Starts for BayC_62:
(Start: 7 @49721 has 10 MA's), (11, 49856), (12, 49862), (13, 49889), (17, 49979), (18, 49985), (21, 50063), (24, 50111), (25, 50144), (26, 50150), (28, 50156), (29, 50246), (30, 50258), (31, 50270), (35, 50402), (40, 50513), (43, 50561), (47, 50585), (48, 50588), (53, 50636), (55, 50645), (57, 50684), (58, 50699), (59, 50708), (61, 50726), (63, 50741),

Gene: Maih_61 Start: 49734, Stop: 50879, Start Num: 7
Candidate Starts for Maih_61:
(Start: 7 @49734 has 10 MA's), (11, 49869), (12, 49875), (13, 49902), (17, 49992), (18, 49998), (21, 50076), (24, 50124), (25, 50157), (26, 50163), (28, 50169), (29, 50259), (30, 50271), (31, 50283), (35, 50415), (40, 50526), (43, 50574), (47, 50598), (48, 50601), (53, 50649), (55, 50658), (57, 50697), (58, 50712), (59, 50721), (61, 50739), (63, 50754),

Gene: Mischief19_75 Start: 62850, Stop: 63887, Start Num: 7
Candidate Starts for Mischief19_75:
(3, 62745), (5, 62781), (Start: 7 @62850 has 10 MA's), (9, 62901), (10, 62922), (11, 62997), (12, 63003), (20, 63171), (22, 63201), (37, 63471), (39, 63537), (44, 63591), (50, 63639), (54, 63666), (68, 63828),

Gene: RainyPolka_60 Start: 48995, Stop: 50059, Start Num: 7
Candidate Starts for RainyPolka_60:

(1, 48785), (6, 48947), (Start: 7 @48995 has 10 MA's), (8, 49031), (9, 49046), (11, 49130), (13, 49163), (18, 49259), (23, 49352), (24, 49367), (26, 49388), (30, 49454), (31, 49466), (43, 49754), (48, 49781), (53, 49829), (55, 49838), (57, 49877), (58, 49892), (59, 49901), (61, 49919), (64, 49973), (65, 49979), (66, 49994),

Gene: Salete_62 Start: 49721, Stop: 50866, Start Num: 7
Candidate Starts for Salete_62:
(Start: 7 @49721 has 10 MA's), (11, 49856), (12, 49862), (13, 49889), (17, 49979), (18, 49985), (21, 50063), (24, 50111), (25, 50144), (26, 50150), (28, 50156), (29, 50246), (30, 50258), (31, 50270), (35, 50402), (40, 50513), (43, 50561), (47, 50585), (48, 50588), (53, 50636), (55, 50645), (57, 50684), (58, 50699), (59, 50708), (61, 50726), (63, 50741),

Gene: TP1604_62 Start: 49727, Stop: 50791, Start Num: 7
Candidate Starts for TP1604_62:
(1, 49517), (2, 49610), (6, 49679), (Start: 7 @49727 has 10 MA's), (9, 49778), (11, 49862), (13, 49895), (16, 49961), (18, 49991), (24, 50099), (26, 50120), (30, 50186), (31, 50198), (33, 50321), (40, 50438), (43, 50486), (49, 50516), (57, 50609), (58, 50624), (59, 50633), (61, 50651), (63, 50666),

Gene: Xkcd426_64 Start: 54967, Stop: 55986, Start Num: 7
Candidate Starts for Xkcd426_64:
(Start: 7 @54967 has 10 MA's), (9, 55018), (15, 55210), (19, 55246), (27, 55363), (32, 55501), (34, 55525), (36, 55567), (41, 55654), (42, 55669), (45, 55705), (52, 55753), (60, 55834), (62, 55855), (63, 55858), (65, 55903), (67, 55924),

Gene: YDN12_61 Start: 48560, Stop: 49582, Start Num: 7
Candidate Starts for YDN12_61:
(4, 48488), (5, 48491), (Start: 7 @48560 has 10 MA's), (11, 48695), (12, 48701), (13, 48728), (14, 48746), (17, 48818), (18, 48824), (21, 48902), (24, 48950), (26, 48971), (31, 49040), (37, 49160), (38, 49208), (46, 49295), (51, 49331), (53, 49352), (55, 49361), (56, 49367), (57, 49400), (58, 49415), (59, 49424), (60, 49433), (61, 49442), (63, 49457), (65, 49502), (66, 49517),