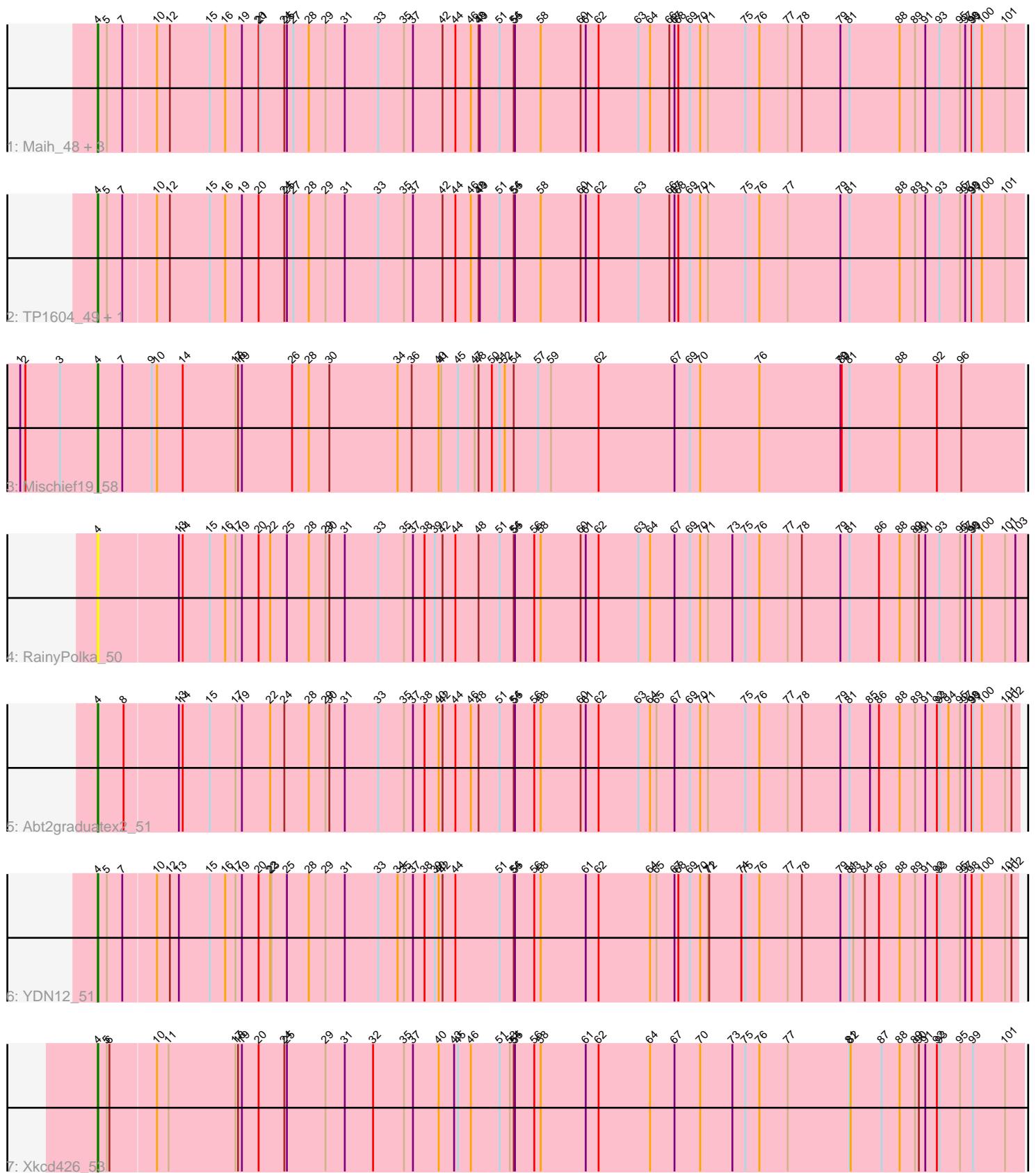


Pham 5498



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 5498 Report

This analysis was run 04/05/24 on database version 557.

Pham number 5498 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Maih_48, Asis_49, Salete_49, BayC_49
- Track 2 : TP1604_49, BabyGotBac_50
- Track 3 : Mischief19_58
- Track 4 : RainyPolka_50
- Track 5 : Abt2graduatex2_51
- Track 6 : YDN12_51
- Track 7 : Xkcd426_53

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

The start number called the most often in the published annotations is 4, it was called in 10 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abt2graduatex2_51, Asis_49, BabyGotBac_50, BayC_49, Maih_48, Mischief19_58, RainyPolka_50, Salete_49, TP1604_49, Xkcd426_53, YDN12_51,

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 4:

- 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_51 (BG), Asis_49 (BG), BabyGotBac_50 (BG), BayC_49 (BG), Maih_48 (BG), Mischief19_58 (BG), RainyPolka_50 (BG), Salete_49 (BG), TP1604_49 (BG), Xkcd426_53 (BG), YDN12_51 (BG),

Summary by clusters:

There is one cluster represented in this pham: BG

Info for manual annotations of cluster BG:

- Start number 4 was manually annotated 10 times for cluster BG.

Gene Information:

Gene: Abt2graduatex2_51 Start: 42386, Stop: 40209, Start Num: 4

Candidate Starts for Abt2graduatex2_51:

(Start: 4 @42386 has 10 MA's), (8, 42326), (13, 42203), (14, 42194), (15, 42131), (17, 42071), (19, 42056), (22, 41990), (24, 41957), (28, 41900), (29, 41861), (30, 41852), (31, 41816), (33, 41738), (35, 41678), (37, 41657), (38, 41630), (40, 41597), (42, 41588), (44, 41558), (46, 41522), (48, 41504), (51, 41456), (54, 41423), (55, 41420), (56, 41375), (58, 41360), (60, 41267), (61, 41255), (62, 41225), (63, 41132), (64, 41105), (65, 41090), (67, 41048), (69, 41012), (70, 40988), (71, 40970), (75, 40883), (76, 40850), (77, 40784), (78, 40751), (79, 40661), (81, 40640), (85, 40592), (86, 40571), (88, 40523), (89, 40487), (91, 40463), (92, 40436), (93, 40430), (94, 40409), (95, 40382), (97, 40370), (98, 40355), (99, 40352), (100, 40331), (101, 40277), (102, 40262),

Gene: Asis_49 Start: 41673, Stop: 39475, Start Num: 4

Candidate Starts for Asis_49:

(Start: 4 @41673 has 10 MA's), (5, 41652), (7, 41616), (10, 41541), (12, 41511), (15, 41418), (16, 41382), (19, 41343), (20, 41304), (21, 41301), (24, 41244), (25, 41238), (27, 41223), (28, 41187), (29, 41148), (31, 41103), (33, 41025), (35, 40965), (37, 40944), (42, 40875), (44, 40845), (46, 40809), (48, 40791), (49, 40788), (51, 40743), (54, 40710), (55, 40707), (58, 40647), (60, 40554), (61, 40542), (62, 40512), (63, 40419), (64, 40392), (66, 40347), (67, 40335), (68, 40326), (69, 40299), (70, 40275), (71, 40257), (75, 40170), (76, 40137), (77, 40071), (78, 40038), (79, 39948), (81, 39927), (88, 39810), (89, 39774), (91, 39750), (93, 39717), (95, 39669), (97, 39657), (98, 39642), (99, 39639), (100, 39618), (101, 39564),

Gene: BabyGotBac_50 Start: 41673, Stop: 39475, Start Num: 4

Candidate Starts for BabyGotBac_50:

(Start: 4 @41673 has 10 MA's), (5, 41652), (7, 41616), (10, 41541), (12, 41511), (15, 41418), (16, 41382), (19, 41343), (20, 41304), (24, 41244), (25, 41238), (27, 41223), (28, 41187), (29, 41148), (31, 41103), (33, 41025), (35, 40965), (37, 40944), (42, 40875), (44, 40845), (46, 40809), (48, 40791), (49, 40788), (51, 40743), (54, 40710), (55, 40707), (58, 40647), (60, 40554), (61, 40542), (62, 40512), (63, 40419), (66, 40347), (67, 40335), (68, 40326), (69, 40299), (70, 40275), (71, 40257), (75, 40170), (76, 40137), (77, 40071), (79, 39948), (81, 39927), (88, 39810), (89, 39774), (91, 39750), (93, 39717), (95, 39669), (97, 39657), (98, 39642), (99, 39639), (100, 39618), (101, 39564),

Gene: BayC_49 Start: 41670, Stop: 39472, Start Num: 4

Candidate Starts for BayC_49:

(Start: 4 @41670 has 10 MA's), (5, 41649), (7, 41613), (10, 41538), (12, 41508), (15, 41415), (16, 41379), (19, 41340), (20, 41301), (21, 41298), (24, 41241), (25, 41235), (27, 41220), (28, 41184), (29, 41145), (31, 41100), (33, 41022), (35, 40962), (37, 40941), (42, 40872), (44, 40842), (46, 40806), (48, 40788), (49, 40785), (51, 40740), (54, 40707), (55, 40704), (58, 40644), (60, 40551), (61, 40539), (62, 40509), (63, 40416), (64, 40389), (66, 40344), (67, 40332), (68, 40323), (69, 40296), (70, 40272), (71, 40254), (75, 40167), (76, 40134), (77, 40068), (78, 40035), (79, 39945), (81, 39924), (88, 39807), (89, 39771), (91, 39747), (93, 39714), (95, 39666), (97, 39654), (98, 39639), (99, 39636), (100, 39615), (101, 39561),

Gene: Maih_48 Start: 41672, Stop: 39474, Start Num: 4

Candidate Starts for Maih_48:

(Start: 4 @41672 has 10 MA's), (5, 41651), (7, 41615), (10, 41540), (12, 41510), (15, 41417), (16, 41381), (19, 41342), (20, 41303), (21, 41300), (24, 41243), (25, 41237), (27, 41222), (28, 41186), (29, 41147), (31, 41102), (33, 41024), (35, 40964), (37, 40943), (42, 40874), (44, 40844), (46, 40808), (48, 40790), (49, 40787), (51, 40742), (54, 40709), (55, 40706), (58, 40646), (60, 40553), (61, 40541), (62, 40511), (63, 40418), (64, 40391), (66, 40346), (67, 40334), (68, 40325), (69, 40298), (70, 40274), (71, 40256), (75, 40169), (76, 40136), (77, 40070), (78, 40037), (79, 39947), (81, 39926), (88, 39809), (89, 39773), (91, 39749), (93, 39716), (95, 39668), (97, 39656), (98, 39641), (99, 39638), (100, 39617), (101, 39563),

Gene: Mischief19_58 Start: 52252, Stop: 50039, Start Num: 4

Candidate Starts for Mischief19_58:

(1, 52429), (2, 52417), (3, 52336), (Start: 4 @52252 has 10 MA's), (7, 52195), (9, 52126), (10, 52114), (14, 52054), (17, 51931), (18, 51925), (19, 51916), (26, 51799), (28, 51760), (30, 51712), (34, 51553), (36, 51520), (40, 51457), (41, 51451), (45, 51412), (47, 51373), (48, 51364), (50, 51334), (51, 51316), (52, 51304), (54, 51283), (57, 51226), (59, 51196), (62, 51085), (67, 50908), (69, 50872), (70, 50848), (76, 50710), (79, 50521), (80, 50518), (81, 50500), (88, 50383), (92, 50296), (96, 50239),

Gene: RainyPolka_50 Start: 41699, Stop: 39486, Start Num: 4

Candidate Starts for RainyPolka_50:

(Start: 4 @41699 has 10 MA's), (13, 41516), (14, 41507), (15, 41444), (16, 41408), (17, 41384), (19, 41369), (20, 41330), (22, 41303), (25, 41264), (28, 41213), (29, 41174), (30, 41165), (31, 41129), (33, 41051), (35, 40991), (37, 40970), (38, 40943), (39, 40919), (42, 40901), (44, 40871), (48, 40817), (51, 40769), (54, 40736), (55, 40733), (56, 40688), (58, 40673), (60, 40580), (61, 40568), (62, 40538), (63, 40445), (64, 40418), (67, 40361), (69, 40325), (70, 40301), (71, 40283), (73, 40226), (75, 40196), (76, 40163), (77, 40097), (78, 40064), (79, 39974), (81, 39953), (86, 39884), (88, 39836), (89, 39800), (90, 39791), (91, 39776), (93, 39743), (95, 39695), (97, 39683), (98, 39668), (99, 39665), (100, 39644), (101, 39590), (103, 39566),

Gene: Salete_49 Start: 41670, Stop: 39472, Start Num: 4

Candidate Starts for Salete_49:

(Start: 4 @41670 has 10 MA's), (5, 41649), (7, 41613), (10, 41538), (12, 41508), (15, 41415), (16, 41379), (19, 41340), (20, 41301), (21, 41298), (24, 41241), (25, 41235), (27, 41220), (28, 41184), (29, 41145), (31, 41100), (33, 41022), (35, 40962), (37, 40941), (42, 40872), (44, 40842), (46, 40806), (48, 40788), (49, 40785), (51, 40740), (54, 40707), (55, 40704), (58, 40644), (60, 40551), (61, 40539), (62, 40509), (63, 40416), (64, 40389), (66, 40344), (67, 40332), (68, 40323), (69, 40296), (70, 40272), (71, 40254), (75, 40167), (76, 40134), (77, 40068), (78, 40035), (79, 39945), (81, 39924), (88, 39807), (89, 39771), (91, 39747), (93, 39714), (95, 39666), (97, 39654), (98, 39639), (99, 39636), (100, 39615), (101, 39561),

Gene: TP1604_49 Start: 41676, Stop: 39478, Start Num: 4

Candidate Starts for TP1604_49:

(Start: 4 @41676 has 10 MA's), (5, 41655), (7, 41619), (10, 41544), (12, 41514), (15, 41421), (16, 41385), (19, 41346), (20, 41307), (24, 41247), (25, 41241), (27, 41226), (28, 41190), (29, 41151), (31, 41106), (33, 41028), (35, 40968), (37, 40947), (42, 40878), (44, 40848), (46, 40812), (48, 40794), (49, 40791), (51, 40746), (54, 40713), (55, 40710), (58, 40650), (60, 40557), (61, 40545), (62, 40515), (63, 40422), (66, 40350), (67, 40338), (68, 40329), (69, 40302), (70, 40278), (71, 40260), (75, 40173), (76, 40140), (77, 40074), (79, 39951), (81, 39930), (88, 39813), (89, 39777), (91, 39753), (93, 39720), (95, 39672), (97, 39660), (98, 39645), (99, 39642), (100, 39621), (101, 39567),

Gene: Xkcd426_53 Start: 47738, Stop: 45540, Start Num: 4

Candidate Starts for Xkcd426_53:

(Start: 4 @47738 has 10 MA's), (5, 47717), (6, 47711), (10, 47606), (11, 47579), (17, 47423), (18, 47417), (19, 47408), (20, 47369), (24, 47309), (25, 47303), (29, 47213), (31, 47168), (32, 47102), (35, 47030), (37, 47009), (40, 46949), (43, 46913), (45, 46904), (46, 46874), (51, 46808), (53, 46784), (54, 46775), (55, 46772), (56, 46727), (58, 46712), (61, 46607), (62, 46577), (64, 46457), (67, 46400), (70, 46340), (73, 46265), (75, 46235), (76, 46202), (77, 46136), (81, 45992), (82, 45989), (87, 45917), (88, 45875), (89, 45839), (90, 45830), (91, 45815), (92, 45788), (93, 45782), (95, 45734), (99, 45704), (101, 45629),

Gene: YDN12_51 Start: 41473, Stop: 39296, Start Num: 4

Candidate Starts for YDN12_51:

(Start: 4 @41473 has 10 MA's), (5, 41452), (7, 41416), (10, 41341), (12, 41311), (13, 41290), (15, 41218), (16, 41182), (17, 41158), (19, 41143), (20, 41104), (22, 41077), (23, 41074), (25, 41038), (28, 40987), (29, 40948), (31, 40903), (33, 40825), (34, 40780), (35, 40765), (37, 40744), (38, 40717), (39, 40693), (40, 40684), (42, 40675), (44, 40645), (51, 40543), (54, 40510), (55, 40507), (56, 40462), (58, 40447), (61, 40342), (62, 40312), (64, 40192), (65, 40177), (67, 40135), (68, 40126), (69, 40099), (70, 40075), (71, 40057), (72, 40054), (74, 39979), (75, 39970), (76, 39937), (77, 39871), (78, 39838), (79, 39748), (81, 39727), (83, 39718), (84, 39691), (86, 39658), (88, 39610), (89, 39574), (91, 39550), (92, 39523), (93, 39517), (95, 39469), (97, 39457), (98, 39442), (100, 39418), (101, 39364), (102, 39349),