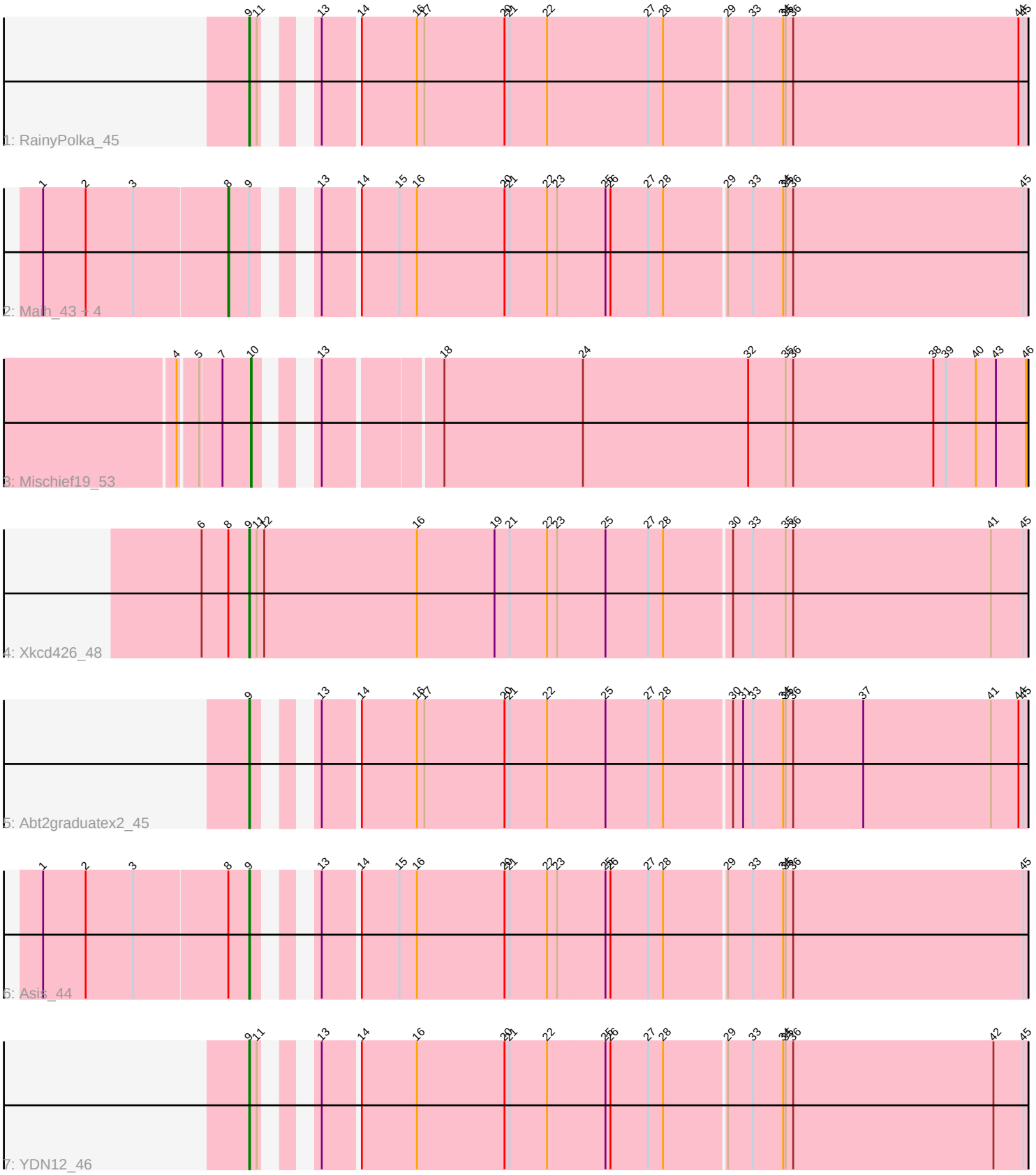
Zoomed Pham 288360



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 288360 Report

This analysis was run 03/28/26 on database version 641.

Pham number 288360 has 11 members, 0 are drafts.

Phages represented in each track:
• Track 1 : RainyPolka_45
• Track 2 : Maih_43, BabyGotBac_45, TP1604_44, Salete_44, BayC_44
• Track 3 : Mischief19_53
• Track 4 : Xkcd426_48
• Track 5 : Abt2graduatex2_45
• Track 6 : Asis_44
• Track 7 : YDN12_46

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

The start number called the most often in the published annotations is 8, it was called in 5 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BabyGotBac_45, BayC_44, Maih_43, Salete_44, TP1604_44,

Genes that have the "Most Annotated" start but do not call it:
• Asis_44, Xkcd426_48,

Genes that do not have the "Most Annotated" start:
• Abt2graduatex2_45, Mischief19_53, RainyPolka_45, YDN12_46,

Summary by start number:

Start 8:
• Found in 7 of 11 (63.6%) of genes in pham
• Manual Annotations of this start: 5 of 11
• Called 71.4% of time when present
• Phage (with cluster) where this start called: BabyGotBac_45 (BG), BayC_44 (BG), Maih_43 (BG), Salete_44 (BG), TP1604_44 (BG),

Start 9:
• Found in 10 of 11 (90.9%) of genes in pham
• Manual Annotations of this start: 5 of 11

• Called 50.0% of time when present
• Phage (with cluster) where this start called: Abt2graduatex2_45 (BG), Asis_44 (BG), RainyPolka_45 (BG), Xkcd426_48 (BG), YDN12_46 (BG),

Start 10:
• Found in 1 of 11 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mischief19_53 (BG),

Summary by clusters:

There is one cluster represented in this pham: BG

Info for manual annotations of cluster BG:
•Start number 8 was manually annotated 5 times for cluster BG.
•Start number 9 was manually annotated 5 times for cluster BG.
•Start number 10 was manually annotated 1 time for cluster BG.

Gene Information:

Gene: Abt2graduatex2_45 Start: 36400, Stop: 35234, Start Num: 9
Candidate Starts for Abt2graduatex2_45:
(Start: 9 @36400 has 5 MA's), (13, 36361), (14, 36322), (16, 36256), (17, 36247), (20, 36151), (21, 36145), (22, 36100), (25, 36031), (27, 35980), (28, 35962), (30, 35884), (31, 35872), (33, 35860), (34, 35824), (35, 35821), (36, 35812), (37, 35728), (41, 35575), (44, 35542), (45, 35536), (47, 35527), (49, 35482), (50, 35458), (51, 35449), (57, 35359), (60, 35341), (64, 35245),

Gene: Asis_44 Start: 36151, Stop: 34985, Start Num: 9
Candidate Starts for Asis_44:
(1, 36394), (2, 36343), (3, 36286), (Start: 8 @36175 has 5 MA's), (Start: 9 @36151 has 5 MA's), (13, 36112), (14, 36073), (15, 36028), (16, 36007), (20, 35902), (21, 35896), (22, 35851), (23, 35839), (25, 35782), (26, 35776), (27, 35731), (28, 35713), (29, 35641), (33, 35611), (34, 35575), (35, 35572), (36, 35563), (45, 35287), (47, 35278), (49, 35233), (50, 35209), (51, 35200), (53, 35167), (57, 35110), (60, 35092), (63, 34999), (64, 34996),

Gene: BabyGotBac_45 Start: 36175, Stop: 34985, Start Num: 8
Candidate Starts for BabyGotBac_45:
(1, 36394), (2, 36343), (3, 36286), (Start: 8 @36175 has 5 MA's), (Start: 9 @36151 has 5 MA's), (13, 36112), (14, 36073), (15, 36028), (16, 36007), (20, 35902), (21, 35896), (22, 35851), (23, 35839), (25, 35782), (26, 35776), (27, 35731), (28, 35713), (29, 35641), (33, 35611), (34, 35575), (35, 35572), (36, 35563), (45, 35287), (47, 35278), (49, 35233), (50, 35209), (51, 35200), (53, 35167), (57, 35110), (60, 35092), (63, 34999), (64, 34996),

Gene: BayC_44 Start: 36172, Stop: 34982, Start Num: 8
Candidate Starts for BayC_44:
(1, 36391), (2, 36340), (3, 36283), (Start: 8 @36172 has 5 MA's), (Start: 9 @36148 has 5 MA's), (13, 36109), (14, 36070), (15, 36025), (16, 36004), (20, 35899), (21, 35893), (22, 35848), (23, 35836), (25, 35779), (26, 35773), (27, 35728), (28, 35710), (29, 35638), (33, 35608), (34, 35572), (35, 35569), (36, 35560), (45, 35284), (47, 35275), (49, 35230), (50, 35206), (51, 35197), (53, 35164), (57, 35107), (60, 35089), (63, 34996), (64, 34993),

Gene: Maih_43 Start: 36174, Stop: 34984, Start Num: 8
Candidate Starts for Maih_43:
(1, 36393), (2, 36342), (3, 36285), (Start: 8 @36174 has 5 MA's), (Start: 9 @36150 has 5 MA's), (13, 36111), (14, 36072), (15, 36027), (16, 36006), (20, 35901), (21, 35895), (22, 35850), (23, 35838), (25, 35781), (26, 35775), (27, 35730), (28, 35712), (29, 35640), (33, 35610), (34, 35574), (35, 35571), (36, 35562), (45, 35286), (47, 35277), (49, 35232), (50, 35208), (51, 35199), (53, 35166), (57, 35109), (60, 35091), (63, 34998), (64, 34995),

Gene: Mischief19_53 Start: 46548, Stop: 45343, Start Num: 10
Candidate Starts for Mischief19_53:
(4, 46626), (5, 46605), (7, 46581), (Start: 10 @46548 has 1 MA's), (13, 46509), (18, 46380), (24, 46215), (32, 46017), (35, 45972), (36, 45963), (38, 45795), (39, 45780), (40, 45744), (43, 45720), (46, 45684), (49, 45633), (52, 45567), (55, 45540), (59, 45477), (60, 45474), (61, 45426), (65, 45369), (66, 45354),

Gene: RainyPolka_45 Start: 36140, Stop: 34974, Start Num: 9
Candidate Starts for RainyPolka_45:
(Start: 9 @36140 has 5 MA's), (11, 36131), (13, 36101), (14, 36062), (16, 35996), (17, 35987), (20, 35891), (21, 35885), (22, 35840), (27, 35720), (28, 35702), (29, 35630), (33, 35600), (34, 35564), (35, 35561), (36, 35552), (44, 35282), (45, 35276), (47, 35267), (49, 35222), (50, 35198), (51, 35189), (54, 35141), (56, 35126), (57, 35099), (60, 35081), (64, 34985),

Gene: Salete_44 Start: 36172, Stop: 34982, Start Num: 8
Candidate Starts for Salete_44:
(1, 36391), (2, 36340), (3, 36283), (Start: 8 @36172 has 5 MA's), (Start: 9 @36148 has 5 MA's), (13, 36109), (14, 36070), (15, 36025), (16, 36004), (20, 35899), (21, 35893), (22, 35848), (23, 35836), (25, 35779), (26, 35773), (27, 35728), (28, 35710), (29, 35638), (33, 35608), (34, 35572), (35, 35569), (36, 35560), (45, 35284), (47, 35275), (49, 35230), (50, 35206), (51, 35197), (53, 35164), (57, 35107), (60, 35089), (63, 34996), (64, 34993),

Gene: TP1604_44 Start: 36178, Stop: 34988, Start Num: 8
Candidate Starts for TP1604_44:
(1, 36397), (2, 36346), (3, 36289), (Start: 8 @36178 has 5 MA's), (Start: 9 @36154 has 5 MA's), (13, 36115), (14, 36076), (15, 36031), (16, 36010), (20, 35905), (21, 35899), (22, 35854), (23, 35842), (25, 35785), (26, 35779), (27, 35734), (28, 35716), (29, 35644), (33, 35614), (34, 35578), (35, 35575), (36, 35566), (45, 35290), (47, 35281), (49, 35236), (50, 35212), (51, 35203), (53, 35170), (57, 35113), (60, 35095), (63, 35002), (64, 34999),

Gene: Xkcd426_48 Start: 42277, Stop: 41054, Start Num: 9
Candidate Starts for Xkcd426_48:
(6, 42331), (Start: 8 @42301 has 5 MA's), (Start: 9 @42277 has 5 MA's), (11, 42268), (12, 42259), (16, 42076), (19, 41983), (21, 41965), (22, 41920), (23, 41908), (25, 41851), (27, 41800), (28, 41782), (30, 41704), (33, 41680), (35, 41641), (36, 41632), (41, 41395), (45, 41356), (48, 41326), (49, 41302), (50, 41278), (51, 41269), (58, 41170), (60, 41161), (62, 41101), (64, 41065),

Gene: YDN12_46 Start: 35847, Stop: 34681, Start Num: 9
Candidate Starts for YDN12_46:
(Start: 9 @35847 has 5 MA's), (11, 35838), (13, 35808), (14, 35769), (16, 35703), (20, 35598), (21, 35592), (22, 35547), (25, 35478), (26, 35472), (27, 35427), (28, 35409), (29, 35337), (33, 35307), (34, 35271), (35, 35268), (36, 35259), (42, 35019), (45, 34983), (47, 34974), (49, 34929), (50, 34905), (51, 34896), (53, 34863), (57, 34806), (60, 34788), (62, 34728), (63, 34695), (64, 34692),