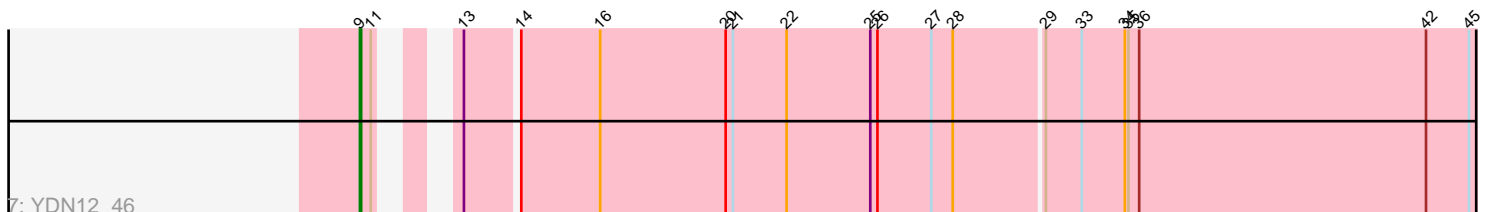
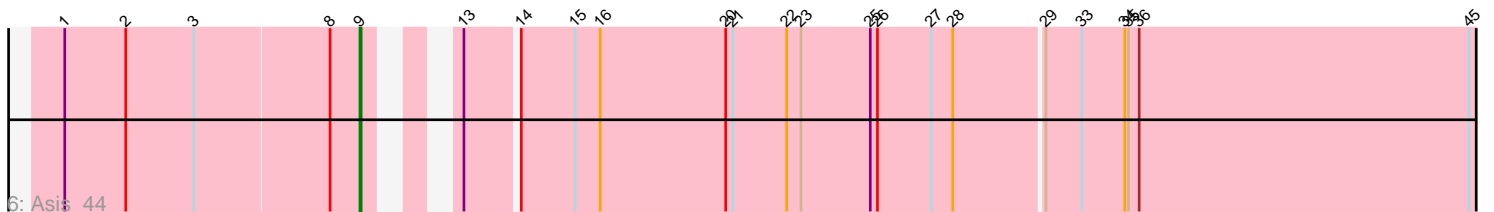
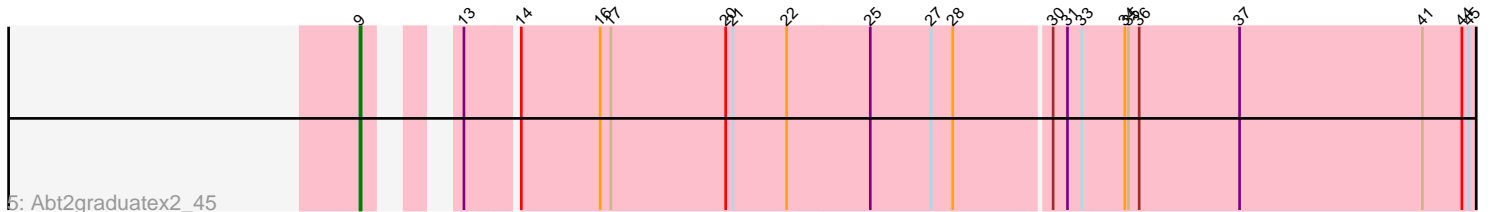
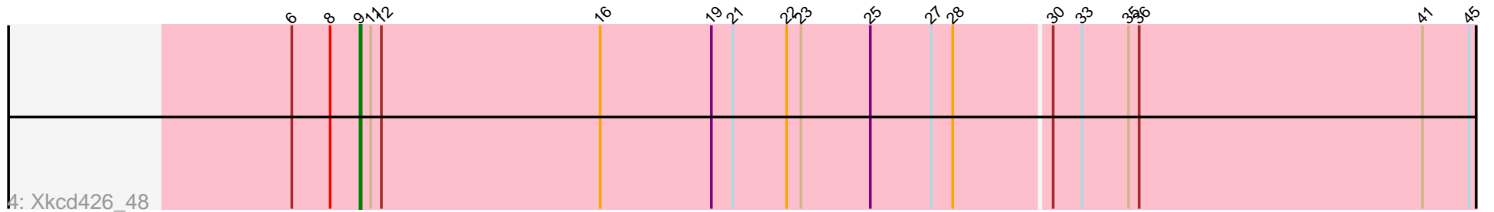
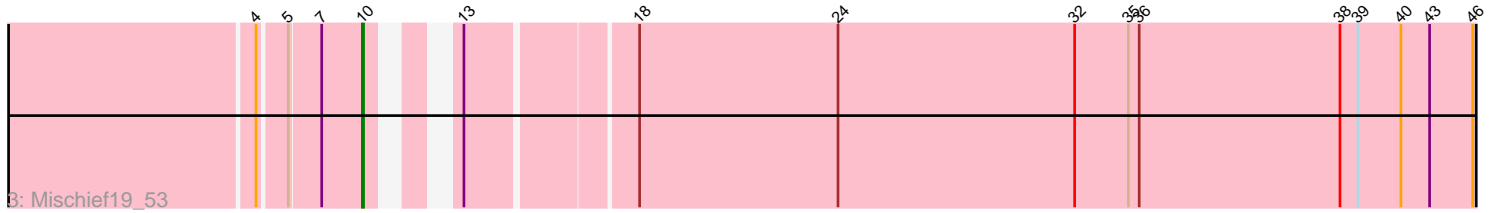
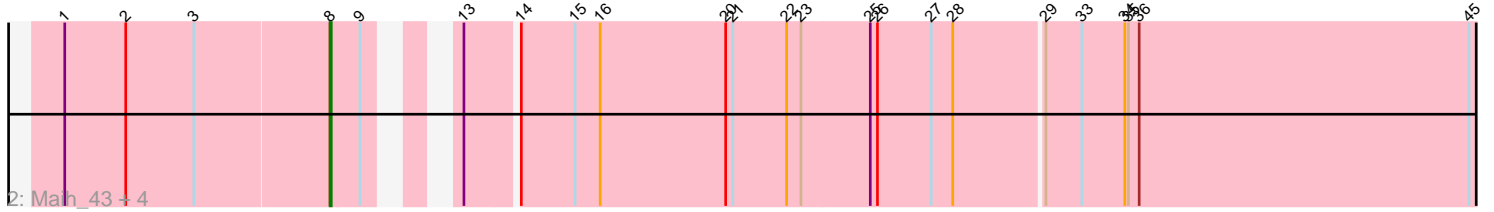
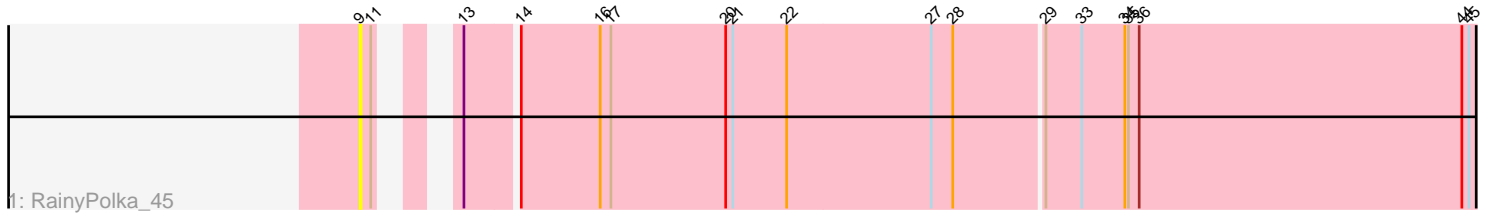


# Zoomed Pham 197035



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 197035 Report

This analysis was run 12/09/24 on database version 580.

Pham number 197035 has 11 members, 1 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 10 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 10
- 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: 4 of 10

- 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 10
- 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 4 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 4 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 4 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 4 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 4 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 4 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 4 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 4 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 4 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 4 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 4 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),