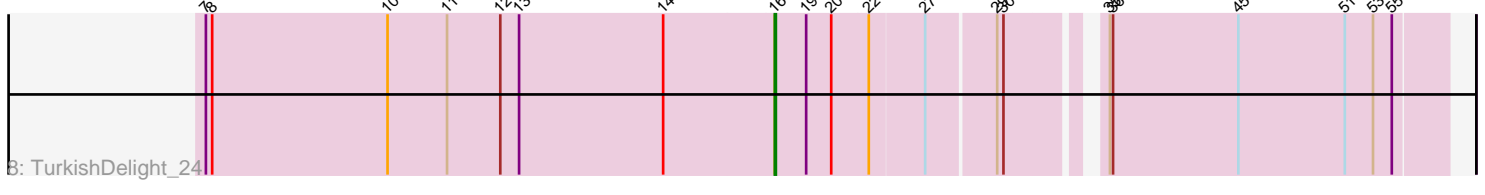
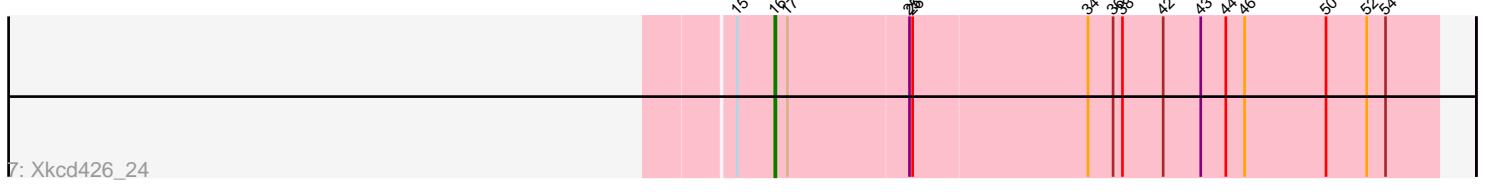
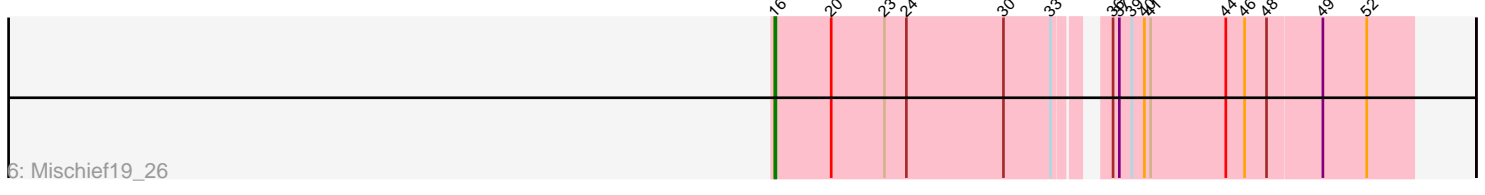
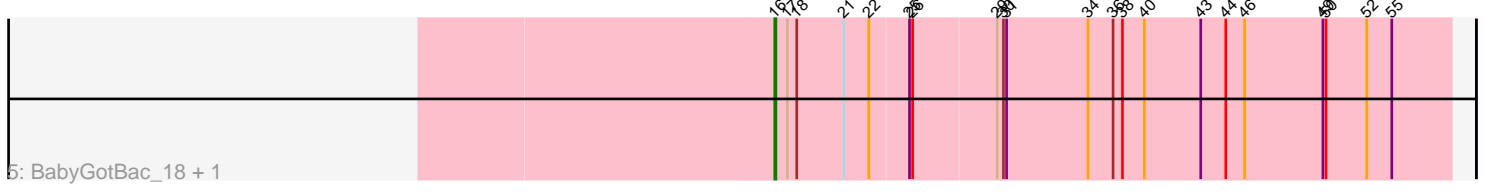
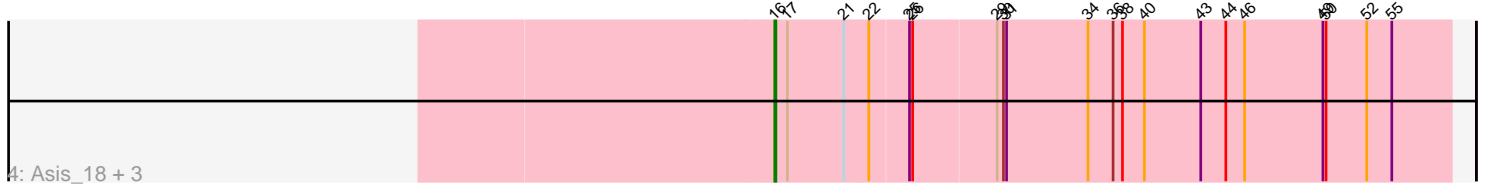
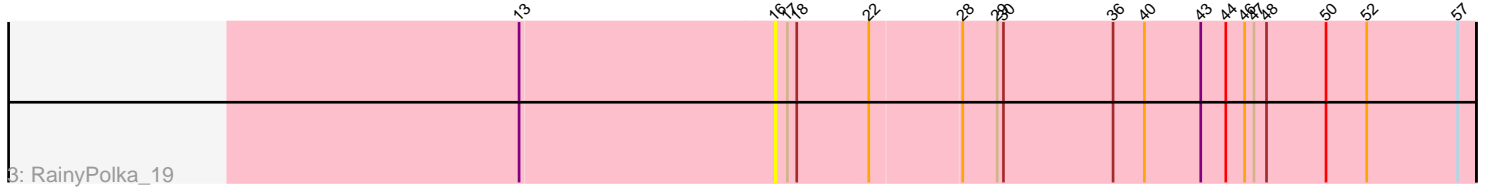
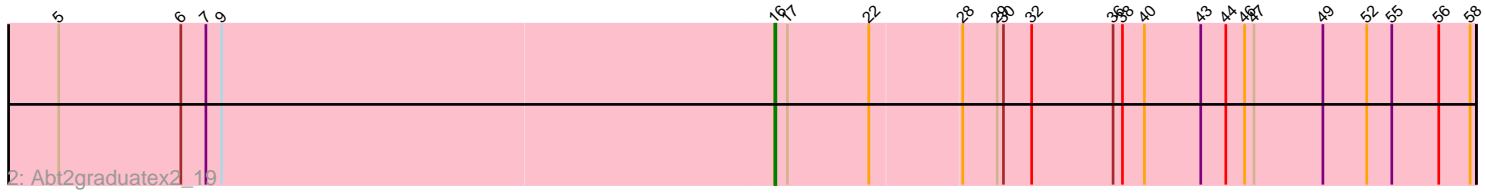
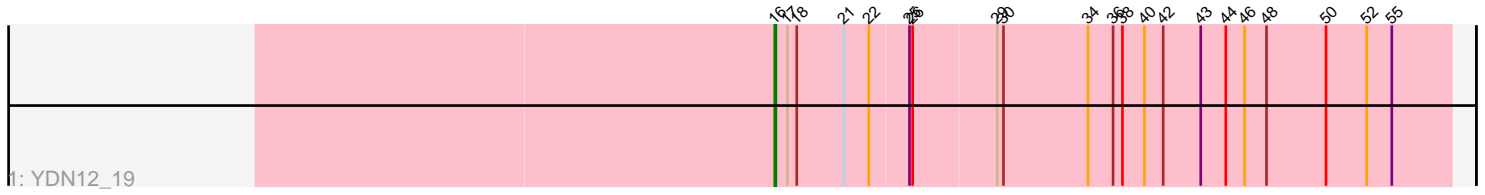


Zoomed Pham 159523



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 159523 Report

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

Pham number 159523 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : YDN12_19
- Track 2 : Abt2graduatex2_19
- Track 3 : RainyPolka_19
- Track 4 : Asis_18, Maih_18, Salete_18, BayC_18
- Track 5 : BabyGotBac_18, TP1604_18
- Track 6 : Mischief19_26
- Track 7 : Xkcd426_24
- Track 8 : TurkishDelight_24

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

The start number called the most often in the published annotations is 16, it was called in 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abt2graduatex2_19, Asis_18, BabyGotBac_18, BayC_18, Maih_18, Mischief19_26, RainyPolka_19, Salete_18, TP1604_18, TurkishDelight_24, Xkcd426_24, YDN12_19,

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 16:

- Found in 12 of 12 (100.0%) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abt2graduatex2_19 (BG), Asis_18 (BG), BabyGotBac_18 (BG), BayC_18 (BG), Maih_18 (BG), Mischief19_26 (BG), RainyPolka_19 (BG), Salete_18 (BG), TP1604_18 (BG), TurkishDelight_24 (singleton), Xkcd426_24 (BG), YDN12_19 (BG),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, BG,

Info for manual annotations of cluster BG:

•Start number 16 was manually annotated 10 times for cluster BG.

Gene Information:

Gene: Abt2graduatex2_19 Start: 19085, Stop: 19747, Start Num: 16

Candidate Starts for Abt2graduatex2_19:

(1, 18098), (2, 18245), (3, 18260), (4, 18323), (5, 18404), (6, 18521), (7, 18545), (9, 18560), (Start: 16 @19085 has 11 MA's), (17, 19097), (22, 19172), (28, 19256), (29, 19289), (30, 19295), (32, 19322), (36, 19400), (38, 19409), (40, 19430), (43, 19484), (44, 19508), (46, 19526), (47, 19535), (49, 19601), (52, 19643), (55, 19667), (56, 19712), (58, 19742),

Gene: Asis_18 Start: 18600, Stop: 19238, Start Num: 16

Candidate Starts for Asis_18:

(Start: 16 @18600 has 11 MA's), (17, 18612), (21, 18666), (22, 18687), (25, 18723), (26, 18726), (29, 18804), (30, 18810), (31, 18813), (34, 18891), (36, 18915), (38, 18924), (40, 18945), (43, 18999), (44, 19023), (46, 19041), (49, 19116), (50, 19119), (52, 19158), (55, 19182),

Gene: BabyGotBac_18 Start: 18600, Stop: 19238, Start Num: 16

Candidate Starts for BabyGotBac_18:

(Start: 16 @18600 has 11 MA's), (17, 18612), (18, 18621), (21, 18666), (22, 18687), (25, 18723), (26, 18726), (29, 18804), (30, 18810), (31, 18813), (34, 18891), (36, 18915), (38, 18924), (40, 18945), (43, 18999), (44, 19023), (46, 19041), (49, 19116), (50, 19119), (52, 19158), (55, 19182),

Gene: BayC_18 Start: 18600, Stop: 19238, Start Num: 16

Candidate Starts for BayC_18:

(Start: 16 @18600 has 11 MA's), (17, 18612), (21, 18666), (22, 18687), (25, 18723), (26, 18726), (29, 18804), (30, 18810), (31, 18813), (34, 18891), (36, 18915), (38, 18924), (40, 18945), (43, 18999), (44, 19023), (46, 19041), (49, 19116), (50, 19119), (52, 19158), (55, 19182),

Gene: Maih_18 Start: 18599, Stop: 19237, Start Num: 16

Candidate Starts for Maih_18:

(Start: 16 @18599 has 11 MA's), (17, 18611), (21, 18665), (22, 18686), (25, 18722), (26, 18725), (29, 18803), (30, 18809), (31, 18812), (34, 18890), (36, 18914), (38, 18923), (40, 18944), (43, 18998), (44, 19022), (46, 19040), (49, 19115), (50, 19118), (52, 19157), (55, 19181),

Gene: Mischief19_26 Start: 28535, Stop: 29116, Start Num: 16

Candidate Starts for Mischief19_26:

(Start: 16 @28535 has 11 MA's), (20, 28589), (23, 28640), (24, 28661), (30, 28754), (33, 28799), (36, 28832), (37, 28838), (39, 28850), (40, 28862), (41, 28868), (44, 28940), (46, 28958), (48, 28979), (49, 29030), (52, 29072),

Gene: RainyPolka_19 Start: 18941, Stop: 19603, Start Num: 16

Candidate Starts for RainyPolka_19:

(13, 18701), (Start: 16 @18941 has 11 MA's), (17, 18953), (18, 18962), (22, 19028), (28, 19112), (29, 19145), (30, 19151), (36, 19256), (40, 19286), (43, 19340), (44, 19364), (46, 19382), (47, 19391), (48,

19403), (50, 19460), (52, 19499), (57, 19586),

Gene: Salete_18 Start: 18600, Stop: 19238, Start Num: 16

Candidate Starts for Salete_18:

(Start: 16 @18600 has 11 MA's), (17, 18612), (21, 18666), (22, 18687), (25, 18723), (26, 18726), (29, 18804), (30, 18810), (31, 18813), (34, 18891), (36, 18915), (38, 18924), (40, 18945), (43, 18999), (44, 19023), (46, 19041), (49, 19116), (50, 19119), (52, 19158), (55, 19182),

Gene: TP1604_18 Start: 18600, Stop: 19238, Start Num: 16

Candidate Starts for TP1604_18:

(Start: 16 @18600 has 11 MA's), (17, 18612), (18, 18621), (21, 18666), (22, 18687), (25, 18723), (26, 18726), (29, 18804), (30, 18810), (31, 18813), (34, 18891), (36, 18915), (38, 18924), (40, 18945), (43, 18999), (44, 19023), (46, 19041), (49, 19116), (50, 19119), (52, 19158), (55, 19182),

Gene: TurkishDelight_24 Start: 20839, Stop: 21438, Start Num: 16

Candidate Starts for TurkishDelight_24:

(7, 20296), (8, 20302), (10, 20470), (11, 20527), (12, 20578), (13, 20596), (14, 20734), (Start: 16 @20839 has 11 MA's), (19, 20869), (20, 20893), (22, 20926), (27, 20977), (29, 21040), (30, 21046), (35, 21118), (36, 21121), (45, 21241), (51, 21343), (53, 21370), (55, 21388),

Gene: Xkcd426_24 Start: 26011, Stop: 26637, Start Num: 16

Candidate Starts for Xkcd426_24:

(15, 25975), (Start: 16 @26011 has 11 MA's), (17, 26023), (25, 26134), (26, 26137), (34, 26302), (36, 26326), (38, 26335), (42, 26374), (43, 26410), (44, 26434), (46, 26452), (50, 26530), (52, 26569), (54, 26587),

Gene: YDN12_19 Start: 18536, Stop: 19174, Start Num: 16

Candidate Starts for YDN12_19:

(Start: 16 @18536 has 11 MA's), (17, 18548), (18, 18557), (21, 18602), (22, 18623), (25, 18659), (26, 18662), (29, 18740), (30, 18746), (34, 18827), (36, 18851), (38, 18860), (40, 18881), (42, 18899), (43, 18935), (44, 18959), (46, 18977), (48, 18998), (50, 19055), (52, 19094), (55, 19118),