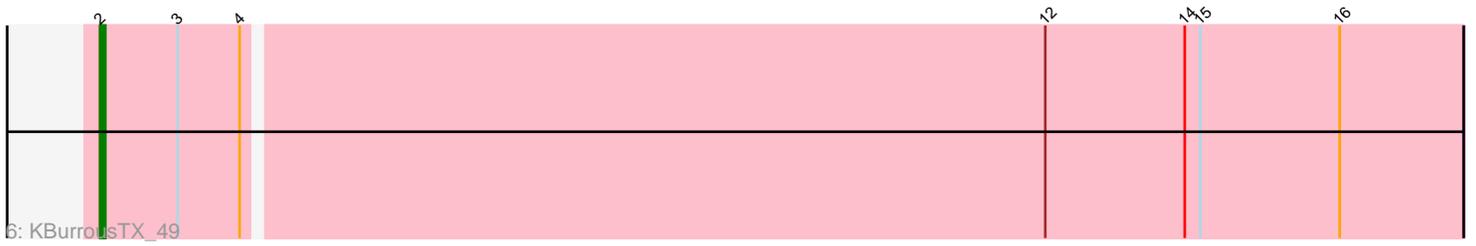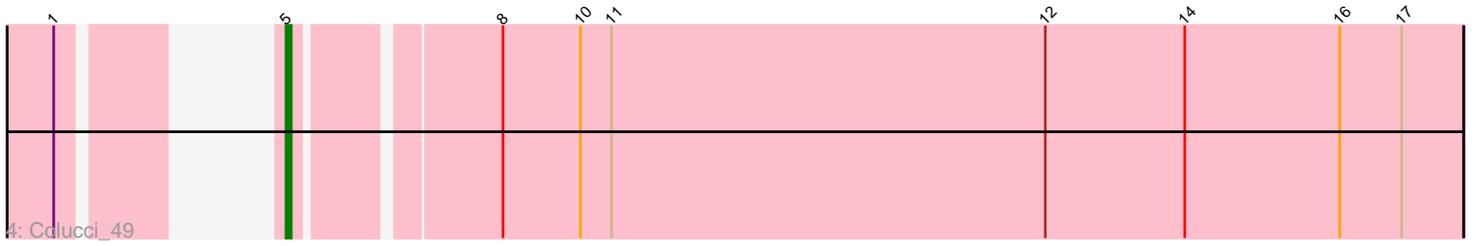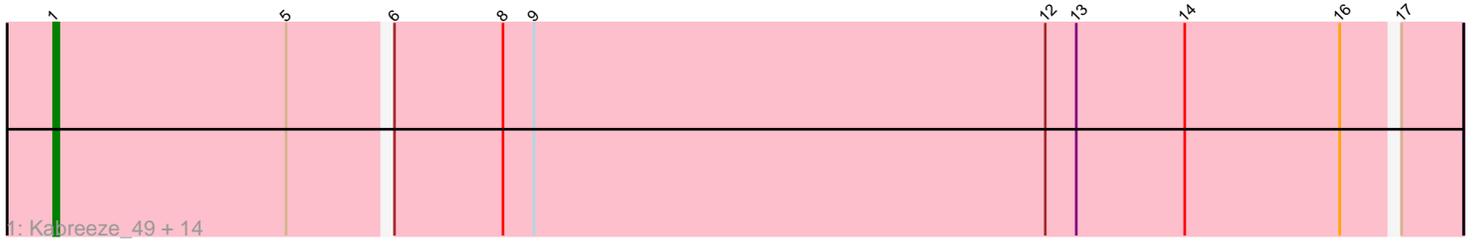# Pham 291566

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 291566 Report

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

Pham number 291566 has 20 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Kabreeze_49, Mordred_49, Conboy_49, HumptyDumpty_49, JaNo_49, Tophat_49, JayCookie_49, PrincessTrina_49, EdgarPoe_49, Chocolat_49, RosiePosie_49, MoyaNatalis_49, Scavito_49, Chubster_49, Chipper1996_490
• Track 2 : Linus_49
• Track 3 : Lymara_49
• Track 4 : Colucci_49
• Track 5 : DrYang_50
• Track 6 : KBurrousTX_49

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

The start number called the most often in the published annotations is 1, it was called in 17 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Chipper1996_490, Chocolat_49, Chubster_49, Conboy_49, DrYang_50, EdgarPoe_49, HumptyDumpty_49, JaNo_49, JayCookie_49, Kabreeze_49, Linus_49, Lymara_49, Mordred_49, MoyaNatalis_49, PrincessTrina_49, RosiePosie_49, Scavito_49, Tophat_49,

Genes that have the "Most Annotated" start but do not call it:
• Colucci_49,

Genes that do not have the "Most Annotated" start:
• KBurrousTX_49,

Summary by start number:

Start 1:
• Found in 19 of 20 (95.0%) of genes in pham
• Manual Annotations of this start: 17 of 19
• Called 94.7% of time when present
• Phage (with cluster) where this start called: Chipper1996_490 (AR), Chocolat_49 (AR), Chubster_49 (AR), Conboy_49 (AR), DrYang_50 (AR), EdgarPoe_49 (AR),

HumptyDumpty_49 (AR), JaNo_49 (AR), JayCookie_49 (AR), Kabreeze_49 (AR), Linus_49 (AR), Lymara_49 (AR), Mordred_49 (AR), MoyaNatalis_49 (AR), PrincessTrina_49 (AR), RosiePosie_49 (AR), Scavito_49 (AR), Tophat_49 (AR),

Start 2:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: KBurrousTX_49 (AR),

Start 5:
• Found in 17 of 20 (85.0%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Colucci_49 (AR),

Summary by clusters:

There is one cluster represented in this pham: AR

Info for manual annotations of cluster AR:
•Start number 1 was manually annotated 17 times for cluster AR.
•Start number 2 was manually annotated 1 time for cluster AR.
•Start number 5 was manually annotated 1 time for cluster AR.

Gene Information:

Gene: Chipper1996_490 Start: 38571, Stop: 38837, Start Num: 1
Candidate Starts for Chipper1996_490:
(Start: 1 @38571 has 17 MA's), (Start: 5 @38616 has 1 MA's), (6, 38634), (8, 38655), (9, 38661), (12, 38760), (13, 38766), (14, 38787), (16, 38817), (17, 38826),

Gene: Chocolat_49 Start: 38551, Stop: 38817, Start Num: 1
Candidate Starts for Chocolat_49:
(Start: 1 @38551 has 17 MA's), (Start: 5 @38596 has 1 MA's), (6, 38614), (8, 38635), (9, 38641), (12, 38740), (13, 38746), (14, 38767), (16, 38797), (17, 38806),

Gene: Chubster_49 Start: 38471, Stop: 38737, Start Num: 1
Candidate Starts for Chubster_49:
(Start: 1 @38471 has 17 MA's), (Start: 5 @38516 has 1 MA's), (6, 38534), (8, 38555), (9, 38561), (12, 38660), (13, 38666), (14, 38687), (16, 38717), (17, 38726),

Gene: Colucci_49 Start: 38303, Stop: 38524, Start Num: 5
Candidate Starts for Colucci_49:
(Start: 1 @38282 has 17 MA's), (Start: 5 @38303 has 1 MA's), (8, 38339), (10, 38354), (11, 38360), (12, 38444), (14, 38471), (16, 38501), (17, 38513),

Gene: Conboy_49 Start: 38699, Stop: 38965, Start Num: 1
Candidate Starts for Conboy_49:
(Start: 1 @38699 has 17 MA's), (Start: 5 @38744 has 1 MA's), (6, 38762), (8, 38783), (9, 38789), (12, 38888), (13, 38894), (14, 38915), (16, 38945), (17, 38954),

Gene: DrYang_50 Start: 40623, Stop: 40874, Start Num: 1
Candidate Starts for DrYang_50:
(Start: 1 @40623 has 17 MA's), (9, 40698), (11, 40713), (12, 40797), (14, 40824), (15, 40827), (16, 40854), (17, 40863),

Gene: EdgarPoe_49 Start: 38699, Stop: 38965, Start Num: 1
Candidate Starts for EdgarPoe_49:
(Start: 1 @38699 has 17 MA's), (Start: 5 @38744 has 1 MA's), (6, 38762), (8, 38783), (9, 38789), (12, 38888), (13, 38894), (14, 38915), (16, 38945), (17, 38954),

Gene: HumptyDumpty_49 Start: 38569, Stop: 38835, Start Num: 1
Candidate Starts for HumptyDumpty_49:
(Start: 1 @38569 has 17 MA's), (Start: 5 @38614 has 1 MA's), (6, 38632), (8, 38653), (9, 38659), (12, 38758), (13, 38764), (14, 38785), (16, 38815), (17, 38824),

Gene: JaNo_49 Start: 38569, Stop: 38835, Start Num: 1
Candidate Starts for JaNo_49:
(Start: 1 @38569 has 17 MA's), (Start: 5 @38614 has 1 MA's), (6, 38632), (8, 38653), (9, 38659), (12, 38758), (13, 38764), (14, 38785), (16, 38815), (17, 38824),

Gene: JayCookie_49 Start: 38705, Stop: 38971, Start Num: 1
Candidate Starts for JayCookie_49:
(Start: 1 @38705 has 17 MA's), (Start: 5 @38750 has 1 MA's), (6, 38768), (8, 38789), (9, 38795), (12, 38894), (13, 38900), (14, 38921), (16, 38951), (17, 38960),

Gene: KBurrousTX_49 Start: 39798, Stop: 40058, Start Num: 2
Candidate Starts for KBurrousTX_49:
(Start: 2 @39798 has 1 MA's), (3, 39813), (4, 39825), (12, 39978), (14, 40005), (15, 40008), (16, 40035),

Gene: Kabreeze_49 Start: 38569, Stop: 38835, Start Num: 1
Candidate Starts for Kabreeze_49:
(Start: 1 @38569 has 17 MA's), (Start: 5 @38614 has 1 MA's), (6, 38632), (8, 38653), (9, 38659), (12, 38758), (13, 38764), (14, 38785), (16, 38815), (17, 38824),

Gene: Linus_49 Start: 38690, Stop: 38956, Start Num: 1
Candidate Starts for Linus_49:
(Start: 1 @38690 has 17 MA's), (Start: 5 @38735 has 1 MA's), (6, 38753), (8, 38774), (12, 38879), (13, 38885), (14, 38906), (16, 38936), (17, 38945),

Gene: Lymara_49 Start: 38517, Stop: 38765, Start Num: 1
Candidate Starts for Lymara_49:
(Start: 1 @38517 has 17 MA's), (7, 38586), (12, 38688), (13, 38694), (14, 38715), (16, 38745),

Gene: Mordred_49 Start: 38569, Stop: 38835, Start Num: 1
Candidate Starts for Mordred_49:
(Start: 1 @38569 has 17 MA's), (Start: 5 @38614 has 1 MA's), (6, 38632), (8, 38653), (9, 38659), (12, 38758), (13, 38764), (14, 38785), (16, 38815), (17, 38824),

Gene: MoyaNatalis_49 Start: 38550, Stop: 38816, Start Num: 1
Candidate Starts for MoyaNatalis_49:

(Start: 1 @38550 has 17 MA's), (Start: 5 @38595 has 1 MA's), (6, 38613), (8, 38634), (9, 38640), (12, 38739), (13, 38745), (14, 38766), (16, 38796), (17, 38805),

Gene: PrincessTrina_49 Start: 38693, Stop: 38959, Start Num: 1
Candidate Starts for PrincessTrina_49:
(Start: 1 @38693 has 17 MA's), (Start: 5 @38738 has 1 MA's), (6, 38756), (8, 38777), (9, 38783), (12, 38882), (13, 38888), (14, 38909), (16, 38939), (17, 38948),

Gene: RosiePosie_49 Start: 38572, Stop: 38838, Start Num: 1
Candidate Starts for RosiePosie_49:
(Start: 1 @38572 has 17 MA's), (Start: 5 @38617 has 1 MA's), (6, 38635), (8, 38656), (9, 38662), (12, 38761), (13, 38767), (14, 38788), (16, 38818), (17, 38827),

Gene: Scavito_49 Start: 38570, Stop: 38836, Start Num: 1
Candidate Starts for Scavito_49:
(Start: 1 @38570 has 17 MA's), (Start: 5 @38615 has 1 MA's), (6, 38633), (8, 38654), (9, 38660), (12, 38759), (13, 38765), (14, 38786), (16, 38816), (17, 38825),

Gene: Tophat_49 Start: 38571, Stop: 38837, Start Num: 1
Candidate Starts for Tophat_49:
(Start: 1 @38571 has 17 MA's), (Start: 5 @38616 has 1 MA's), (6, 38634), (8, 38655), (9, 38661), (12, 38760), (13, 38766), (14, 38787), (16, 38817), (17, 38826),