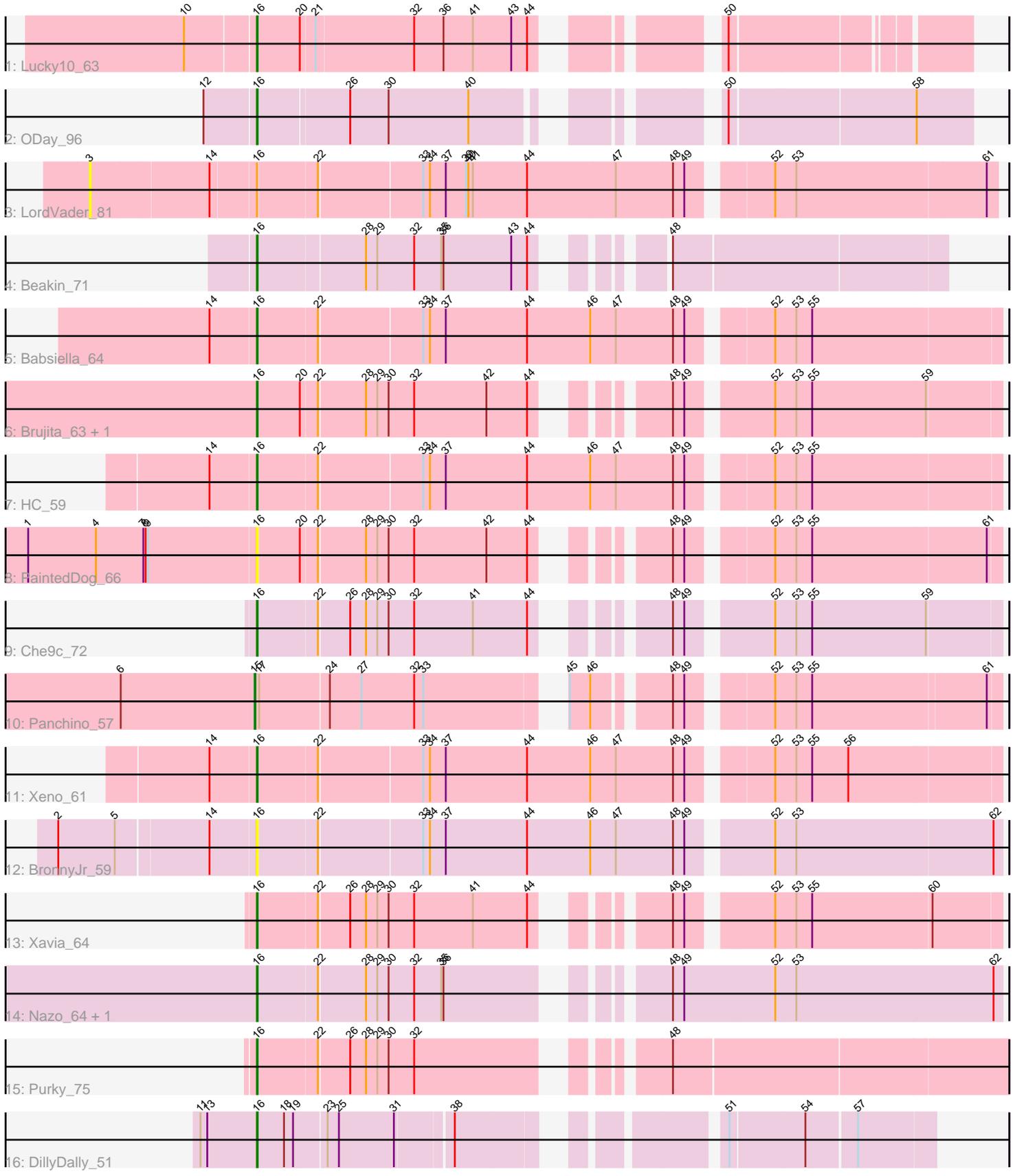# Pham 289812

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 289812 Report

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

Pham number 289812 has 18 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Lucky10_63
• Track 2 : ODay_96
• Track 3 : LordVader_81
• Track 4 : Beakin_71
• Track 5 : Babsiella_64
• Track 6 : Brujita_63, Island3_64
• Track 7 : HC_59
• Track 8 : PaintedDog_66
• Track 9 : Che9c_72
• Track 10 : Panchino_57
• Track 11 : Xeno_61
• Track 12 : BronnyJr_59
• Track 13 : Xavia_64
• Track 14 : Nazo_64, BigNuz_63
• Track 15 : Purky_75
• Track 16 : DillyDally_51

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 14 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Babsiella_64, Beakin_71, BigNuz_63, BronnyJr_59, Brujita_63, Che9c_72, DillyDally_51, HC_59, Island3_64, Lucky10_63, Nazo_64, ODay_96, PaintedDog_66, Purky_75, Xavia_64, Xeno_61,

Genes that have the "Most Annotated" start but do not call it:
• LordVader_81,

Genes that do not have the "Most Annotated" start:
• Panchino_57,

Summary by start number:

Start 3:
• Found in 1 of 18 (5.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LordVader_81 (F),

Start 15:
• Found in 1 of 18 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Panchino_57 (N),

Start 16:
• Found in 17 of 18 (94.4%) of genes in pham
• Manual Annotations of this start: 14 of 15
• Called 94.1% of time when present
• Phage (with cluster) where this start called: Babsiella_64 (I1), Beakin_71 (F1), BigNuz_63 (P4), BronnyJr_59 (P1), Brujita_63 (I1), Che9c_72 (I2), DillyDally_51 (singleton), HC_59 (I1), Island3_64 (I1), Lucky10_63 (DH), Nazo_64 (P4), ODay_96 (DN), PaintedDog_66 (I1), Purky_75 (P6), Xavia_64 (P3), Xeno_61 (N),

Summary by clusters:

There are 12 clusters represented in this pham: DN, P3, singleton, P1, P6, DH, P4, F1, I1, I2, N, F,

Info for manual annotations of cluster DH:
•Start number 16 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:
•Start number 16 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster F1:
•Start number 16 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster I1:
•Start number 16 was manually annotated 4 times for cluster I1.

Info for manual annotations of cluster I2:
•Start number 16 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster N:
•Start number 15 was manually annotated 1 time for cluster N.
•Start number 16 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster P3:
•Start number 16 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:
•Start number 16 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P6:
•Start number 16 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: Babsiella_64 Start: 40664, Stop: 41602, Start Num: 16
Candidate Starts for Babsiella_64:
(14, 40604), (Start: 16 @40664 has 14 MA's), (22, 40739), (33, 40871), (34, 40880), (37, 40901), (44, 41009), (46, 41093), (47, 41126), (48, 41201), (49, 41216), (52, 41309), (53, 41336), (55, 41357),

Gene: Beakin_71 Start: 42319, Stop: 43122, Start Num: 16
Candidate Starts for Beakin_71:
(Start: 16 @42319 has 14 MA's), (28, 42454), (29, 42469), (32, 42517), (35, 42553), (36, 42556), (43, 42646), (44, 42667), (48, 42772),

Gene: BigNuz_63 Start: 41443, Stop: 42339, Start Num: 16
Candidate Starts for BigNuz_63:
(Start: 16 @41443 has 14 MA's), (22, 41518), (28, 41578), (29, 41593), (30, 41608), (32, 41641), (35, 41677), (36, 41680), (48, 41905), (49, 41920), (52, 42040), (53, 42067), (62, 42328),

Gene: BronnyJr_59 Start: 40610, Stop: 41554, Start Num: 16
Candidate Starts for BronnyJr_59:
(2, 40358), (5, 40433), (14, 40550), (Start: 16 @40610 has 14 MA's), (22, 40685), (33, 40817), (34, 40826), (37, 40847), (44, 40955), (46, 41039), (47, 41072), (48, 41147), (49, 41162), (52, 41258), (53, 41285), (62, 41543),

Gene: Brujita_63 Start: 40794, Stop: 41660, Start Num: 16
Candidate Starts for Brujita_63:
(Start: 16 @40794 has 14 MA's), (20, 40848), (22, 40869), (28, 40929), (29, 40944), (30, 40959), (32, 40992), (42, 41088), (44, 41142), (48, 41256), (49, 41271), (52, 41367), (53, 41394), (55, 41415), (59, 41565),

Gene: Che9c_72 Start: 50505, Stop: 51371, Start Num: 16
Candidate Starts for Che9c_72:
(Start: 16 @50505 has 14 MA's), (22, 50580), (26, 50619), (28, 50640), (29, 50655), (30, 50670), (32, 50703), (41, 50781), (44, 50853), (48, 50967), (49, 50982), (52, 51078), (53, 51105), (55, 51126), (59, 51276),

Gene: DillyDally_51 Start: 33082, Stop: 33858, Start Num: 16
Candidate Starts for DillyDally_51:
(11, 33007), (13, 33016), (Start: 16 @33082 has 14 MA's), (18, 33118), (19, 33130), (23, 33169), (25, 33184), (31, 33256), (38, 33325), (51, 33601), (54, 33697), (57, 33760),

Gene: HC_59 Start: 38210, Stop: 39148, Start Num: 16
Candidate Starts for HC_59:
(14, 38150), (Start: 16 @38210 has 14 MA's), (22, 38285), (33, 38417), (34, 38426), (37, 38447), (44, 38555), (46, 38639), (47, 38672), (48, 38747), (49, 38762), (52, 38855), (53, 38882), (55, 38903),

Gene: Island3_64 Start: 40794, Stop: 41660, Start Num: 16
Candidate Starts for Island3_64:

(Start: 16 @40794 has 14 MA's), (20, 40848), (22, 40869), (28, 40929), (29, 40944), (30, 40959), (32, 40992), (42, 41088), (44, 41142), (48, 41256), (49, 41271), (52, 41367), (53, 41394), (55, 41415), (59, 41565),

Gene: LordVader_81 Start: 46533, Stop: 47675, Start Num: 3
Candidate Starts for LordVader_81:
(3, 46533), (14, 46686), (Start: 16 @46743 has 14 MA's), (22, 46818), (33, 46950), (34, 46959), (37, 46980), (39, 47007), (40, 47010), (41, 47016), (44, 47088), (47, 47205), (48, 47280), (49, 47295), (52, 47388), (53, 47415), (61, 47661),

Gene: Lucky10_63 Start: 39691, Stop: 40488, Start Num: 16
Candidate Starts for Lucky10_63:
(10, 39604), (Start: 16 @39691 has 14 MA's), (20, 39745), (21, 39763), (32, 39889), (36, 39928), (41, 39967), (43, 40018), (44, 40039), (50, 40207),

Gene: Nazo_64 Start: 41628, Stop: 42524, Start Num: 16
Candidate Starts for Nazo_64:
(Start: 16 @41628 has 14 MA's), (22, 41703), (28, 41763), (29, 41778), (30, 41793), (32, 41826), (35, 41862), (36, 41865), (48, 42090), (49, 42105), (52, 42225), (53, 42252), (62, 42513),

Gene: ODay_96 Start: 51151, Stop: 51972, Start Num: 16
Candidate Starts for ODay_96:
(12, 51088), (Start: 16 @51151 has 14 MA's), (26, 51265), (30, 51316), (40, 51421), (50, 51661), (58, 51898),

Gene: PaintedDog_66 Start: 42497, Stop: 43360, Start Num: 16
Candidate Starts for PaintedDog_66:
(1, 42197), (4, 42287), (7, 42350), (8, 42353), (9, 42356), (Start: 16 @42497 has 14 MA's), (20, 42551), (22, 42572), (28, 42632), (29, 42647), (30, 42662), (32, 42695), (42, 42791), (44, 42845), (48, 42959), (49, 42974), (52, 43067), (53, 43094), (55, 43115), (61, 43343),

Gene: Panchino_57 Start: 39053, Stop: 39931, Start Num: 15
Candidate Starts for Panchino_57:
(6, 38876), (Start: 15 @39053 has 1 MA's), (17, 39059), (24, 39149), (27, 39191), (32, 39260), (33, 39272), (45, 39422), (46, 39449), (48, 39533), (49, 39548), (52, 39641), (53, 39668), (55, 39689), (61, 39914),

Gene: Purky_75 Start: 45874, Stop: 46767, Start Num: 16
Candidate Starts for Purky_75:
(Start: 16 @45874 has 14 MA's), (22, 45949), (26, 45988), (28, 46009), (29, 46024), (30, 46039), (32, 46072), (48, 46336),

Gene: Xavia_64 Start: 45674, Stop: 46540, Start Num: 16
Candidate Starts for Xavia_64:
(Start: 16 @45674 has 14 MA's), (22, 45749), (26, 45788), (28, 45809), (29, 45824), (30, 45839), (32, 45872), (41, 45950), (44, 46022), (48, 46136), (49, 46151), (52, 46247), (53, 46274), (55, 46295), (60, 46451),

Gene: Xeno_61 Start: 38162, Stop: 39100, Start Num: 16
Candidate Starts for Xeno_61:
(14, 38102), (Start: 16 @38162 has 14 MA's), (22, 38237), (33, 38369), (34, 38378), (37, 38399), (44, 38507), (46, 38591), (47, 38624), (48, 38699), (49, 38714), (52, 38807), (53, 38834), (55, 38855), (56, 38903),