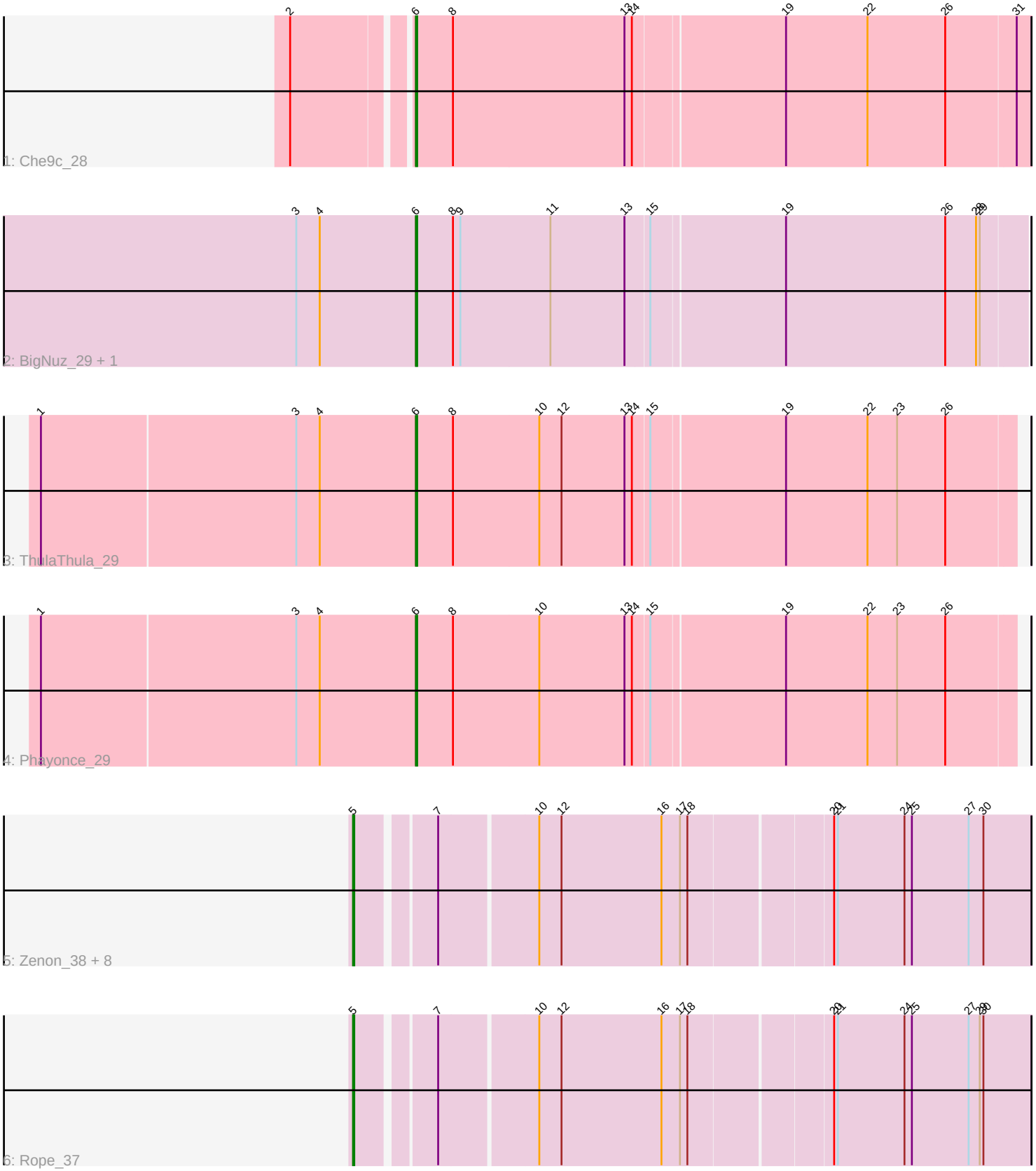
Pham 329538


1: Che9c_28
2: BigNuz_29 + 1
3: ThulaThula_29
4: Phayonce_29
5: Zenon_38 + 8
6: Rope_37

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 329538 Report

This analysis was run 09/05/26 on database version 662.

Pham number 329538 has 15 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Che9c_28
• Track 2 : BigNuz_29, Nazo_29
• Track 3 : ThulaThula_29
• Track 4 : Phayonce_29
• Track 5 : Zenon_38, Candle_37, Papyrus_37, MontyDev_37, Nilo_38, Riparian_37, Yelo_37, Gimesa_38, Weiss13_37
• Track 6 : Rope_37

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

The start number called the most often in the published annotations is 5, it was called in 9 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Candle_37, Gimesa_38, MontyDev_37, Nilo_38, Papyrus_37, Riparian_37, Rope_37, Weiss13_37, Yelo_37, Zenon_38,

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

Genes that do not have the "Most Annotated" start:
• BigNuz_29, Che9c_28, Nazo_29, Phayonce_29, ThulaThula_29,

Summary by start number:

Start 5:
• Found in 10 of 15 (66.7%) of genes in pham
• Manual Annotations of this start: 9 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Candle_37 (R), Gimesa_38 (R), MontyDev_37 (R), Nilo_38 (R), Papyrus_37 (R), Riparian_37 (R), Rope_37 (R), Weiss13_37 (R), Yelo_37 (R), Zenon_38 (R),

Start 6:

• Found in 5 of 15 (33.3%) of genes in pham
• Manual Annotations of this start: 5 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BigNuz_29 (P4), Che9c_28 (I2), Nazo_29 (P4), Phayonce_29 (P5), ThulaThula_29 (P5),

Summary by clusters:

There are 4 clusters represented in this pham: R, I2, P4, P5,

Info for manual annotations of cluster I2:
•Start number 6 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster P4:
•Start number 6 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 6 was manually annotated 2 times for cluster P5.

Info for manual annotations of cluster R:
•Start number 5 was manually annotated 9 times for cluster R.

Gene Information:

Gene: BigNuz_29 Start: 26343, Stop: 26825, Start Num: 6
Candidate Starts for BigNuz_29:
(3, 26247), (4, 26265), (Start: 6 @26343 has 5 MA's), (8, 26373), (9, 26379), (11, 26451), (13, 26511), (15, 26529), (19, 26634), (26, 26763), (28, 26787), (29, 26790),

Gene: Candle_37 Start: 34430, Stop: 34948, Start Num: 5
Candidate Starts for Candle_37:
(Start: 5 @34430 has 9 MA's), (7, 34487), (10, 34562), (12, 34580), (16, 34661), (17, 34676), (18, 34682), (20, 34790), (21, 34793), (24, 34847), (25, 34853), (27, 34898), (30, 34910),

Gene: Che9c_28 Start: 25654, Stop: 26139, Start Num: 6
Candidate Starts for Che9c_28:
(2, 25567), (Start: 6 @25654 has 5 MA's), (8, 25684), (13, 25822), (14, 25828), (19, 25945), (22, 26011), (26, 26074), (31, 26128),

Gene: Gimesa_38 Start: 34229, Stop: 34747, Start Num: 5
Candidate Starts for Gimesa_38:
(Start: 5 @34229 has 9 MA's), (7, 34286), (10, 34361), (12, 34379), (16, 34460), (17, 34475), (18, 34481), (20, 34589), (21, 34592), (24, 34646), (25, 34652), (27, 34697), (30, 34709),

Gene: MontyDev_37 Start: 34077, Stop: 34595, Start Num: 5
Candidate Starts for MontyDev_37:
(Start: 5 @34077 has 9 MA's), (7, 34134), (10, 34209), (12, 34227), (16, 34308), (17, 34323), (18, 34329), (20, 34437), (21, 34440), (24, 34494), (25, 34500), (27, 34545), (30, 34557),

Gene: Nazo_29 Start: 26346, Stop: 26828, Start Num: 6
Candidate Starts for Nazo_29:

(3, 26250), (4, 26268), (Start: 6 @26346 has 5 MA's), (8, 26376), (9, 26382), (11, 26454), (13, 26514), (15, 26532), (19, 26637), (26, 26766), (28, 26790), (29, 26793),

Gene: Nilo_38 Start: 34433, Stop: 34951, Start Num: 5
Candidate Starts for Nilo_38:
(Start: 5 @34433 has 9 MA's), (7, 34490), (10, 34565), (12, 34583), (16, 34664), (17, 34679), (18, 34685), (20, 34793), (21, 34796), (24, 34850), (25, 34856), (27, 34901), (30, 34913),

Gene: Papyrus_37 Start: 34092, Stop: 34610, Start Num: 5
Candidate Starts for Papyrus_37:
(Start: 5 @34092 has 9 MA's), (7, 34149), (10, 34224), (12, 34242), (16, 34323), (17, 34338), (18, 34344), (20, 34452), (21, 34455), (24, 34509), (25, 34515), (27, 34560), (30, 34572),

Gene: Phayonce_29 Start: 26266, Stop: 26739, Start Num: 6
Candidate Starts for Phayonce_29:
(1, 25966), (3, 26170), (4, 26188), (Start: 6 @26266 has 5 MA's), (8, 26296), (10, 26365), (13, 26434), (14, 26440), (15, 26452), (19, 26557), (22, 26623), (23, 26647), (26, 26686),

Gene: Riparian_37 Start: 33894, Stop: 34412, Start Num: 5
Candidate Starts for Riparian_37:
(Start: 5 @33894 has 9 MA's), (7, 33951), (10, 34026), (12, 34044), (16, 34125), (17, 34140), (18, 34146), (20, 34254), (21, 34257), (24, 34311), (25, 34317), (27, 34362), (30, 34374),

Gene: Rope_37 Start: 34074, Stop: 34592, Start Num: 5
Candidate Starts for Rope_37:
(Start: 5 @34074 has 9 MA's), (7, 34131), (10, 34206), (12, 34224), (16, 34305), (17, 34320), (18, 34326), (20, 34434), (21, 34437), (24, 34491), (25, 34497), (27, 34542), (29, 34551), (30, 34554),

Gene: ThulaThula_29 Start: 26272, Stop: 26745, Start Num: 6
Candidate Starts for ThulaThula_29:
(1, 25972), (3, 26176), (4, 26194), (Start: 6 @26272 has 5 MA's), (8, 26302), (10, 26371), (12, 26389), (13, 26440), (14, 26446), (15, 26458), (19, 26563), (22, 26629), (23, 26653), (26, 26692),

Gene: Weiss13_37 Start: 34126, Stop: 34644, Start Num: 5
Candidate Starts for Weiss13_37:
(Start: 5 @34126 has 9 MA's), (7, 34183), (10, 34258), (12, 34276), (16, 34357), (17, 34372), (18, 34378), (20, 34486), (21, 34489), (24, 34543), (25, 34549), (27, 34594), (30, 34606),

Gene: Yelo_37 Start: 34419, Stop: 34937, Start Num: 5
Candidate Starts for Yelo_37:
(Start: 5 @34419 has 9 MA's), (7, 34476), (10, 34551), (12, 34569), (16, 34650), (17, 34665), (18, 34671), (20, 34779), (21, 34782), (24, 34836), (25, 34842), (27, 34887), (30, 34899),

Gene: Zenon_38 Start: 34438, Stop: 34956, Start Num: 5
Candidate Starts for Zenon_38:
(Start: 5 @34438 has 9 MA's), (7, 34495), (10, 34570), (12, 34588), (16, 34669), (17, 34684), (18, 34690), (20, 34798), (21, 34801), (24, 34855), (25, 34861), (27, 34906), (30, 34918),