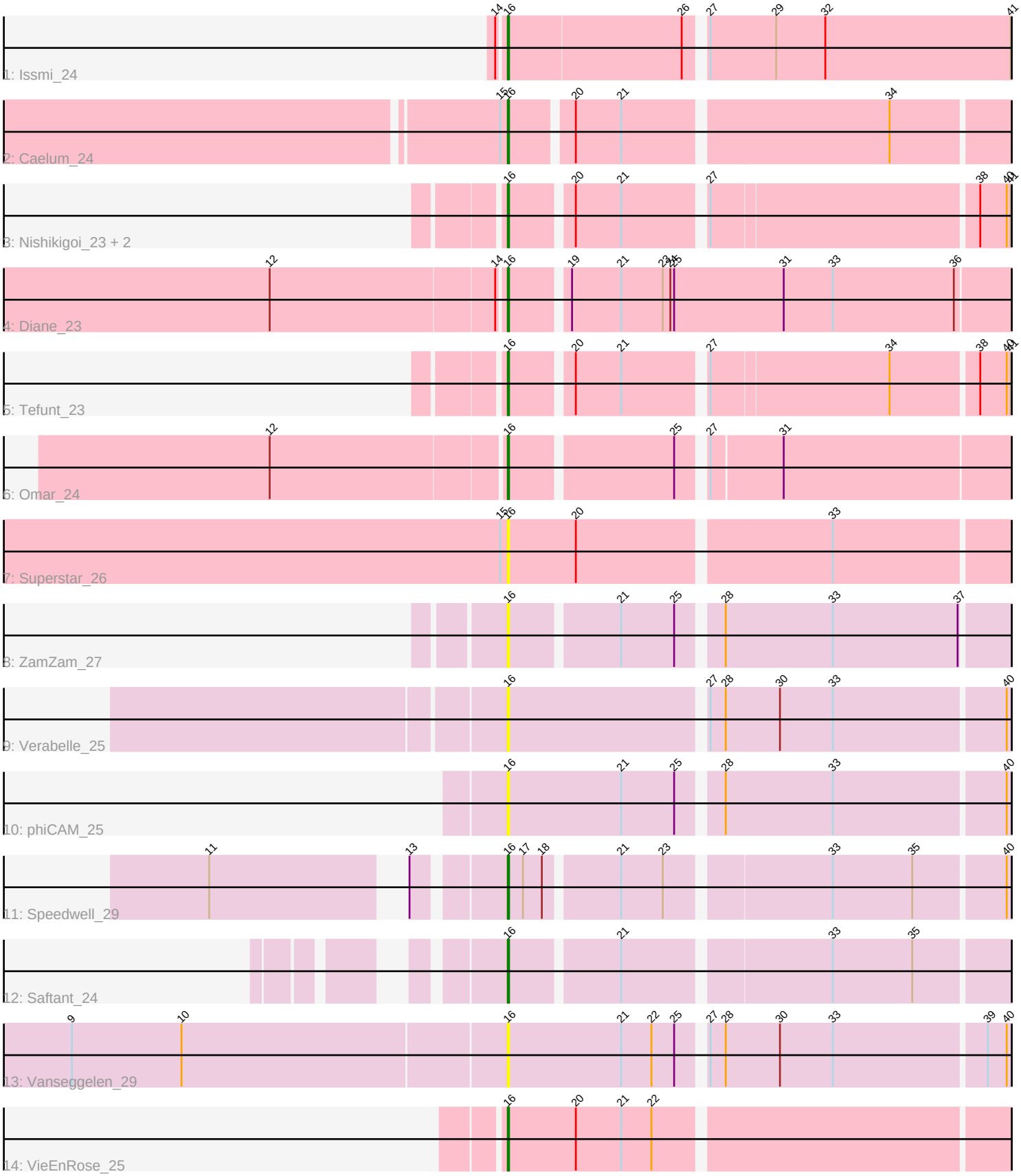
Zoomed Pham 291628



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 291628 Report

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

Pham number 291628 has 16 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Issmi_24
• Track 2 : Caelum_24
• Track 3 : Nishikigoi_23, Haizum_23, Amethyst_23
• Track 4 : Diane_23
• Track 5 : Tefunt_23
• Track 6 : Omar_24
• Track 7 : Superstar_26
• Track 8 : ZamZam_27
• Track 9 : Verabelle_25
• Track 10 : phiCAM_25
• Track 11 : Speedwell_29
• Track 12 : Saftant_24
• Track 13 : Vanseggelen_29
• Track 14 : VieEnRose_25

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:
• Amethyst_23, Caelum_24, Diane_23, Haizum_23, Issmi_24, Nishikigoi_23, Omar_24, Saftant_24, Speedwell_29, Superstar_26, Tefunt_23, Vanseggelen_29, Verabelle_25, VieEnRose_25, ZamZam_27, phiCAM_25,

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 16 of 16 (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: Amethyst_23 (BD2), Caelum_24 (BD2), Diane_23 (BD2), Haizum_23 (BD2), Issmi_24 (BD2), Nishikigoi_23 (BD2), Omar_24 (BD2), Saftant_24 (BD3), Speedwell_29 (BD3), Superstar_26 (BD2), Tefunt_23 (BD2), Vanseggelen_29 (BD3), Verabelle_25 (BD3), VieEnRose_25 (BD6), ZamZam_27 (BD3), phiCAM_25 (BD3),

Summary by clusters:

There are 3 clusters represented in this pham: BD6, BD3, BD2,

Info for manual annotations of cluster BD2:
•Start number 16 was manually annotated 8 times for cluster BD2.

Info for manual annotations of cluster BD3:
•Start number 16 was manually annotated 2 times for cluster BD3.

Info for manual annotations of cluster BD6:
•Start number 16 was manually annotated 1 time for cluster BD6.

Gene Information:

Gene: Amethyst_23 Start: 19487, Stop: 19861, Start Num: 16
Candidate Starts for Amethyst_23:
(Start: 16 @19487 has 11 MA's), (20, 19532), (21, 19568), (27, 19628), (38, 19832), (40, 19853), (41, 19856),

Gene: Caelum_24 Start: 19614, Stop: 19991, Start Num: 16
Candidate Starts for Caelum_24:
(4, 18576), (5, 19014), (6, 19044), (15, 19608), (Start: 16 @19614 has 11 MA's), (20, 19659), (21, 19695), (34, 19896),

Gene: Diane_23 Start: 19871, Stop: 20263, Start Num: 16
Candidate Starts for Diane_23:
(1, 18041), (2, 18254), (3, 18344), (8, 19448), (12, 19691), (14, 19865), (Start: 16 @19871 has 11 MA's), (19, 19913), (21, 19952), (23, 19985), (24, 19991), (25, 19994), (31, 20081), (33, 20120), (36, 20216),

Gene: Haizum_23 Start: 19509, Stop: 19883, Start Num: 16
Candidate Starts for Haizum_23:
(Start: 16 @19509 has 11 MA's), (20, 19554), (21, 19590), (27, 19650), (38, 19854), (40, 19875), (41, 19878),

Gene: Issmi_24 Start: 20233, Stop: 20640, Start Num: 16
Candidate Starts for Issmi_24:
(14, 20227), (Start: 16 @20233 has 11 MA's), (26, 20368), (27, 20380), (29, 20431), (32, 20470), (41, 20617), (42, 20632),

Gene: Nishikigoi_23 Start: 19509, Stop: 19883, Start Num: 16

Candidate Starts for Nishikigoi_23:
(Start: 16 @19509 has 11 MA's), (20, 19554), (21, 19590), (27, 19650), (38, 19854), (40, 19875), (41, 19878),

Gene: Omar_24 Start: 19908, Stop: 20285, Start Num: 16
Candidate Starts for Omar_24:
(12, 19728), (Start: 16 @19908 has 11 MA's), (25, 20031), (27, 20049), (31, 20103),

Gene: Saftant_24 Start: 20799, Stop: 21173, Start Num: 16
Candidate Starts for Saftant_24:
(Start: 16 @20799 has 11 MA's), (21, 20880), (33, 21033), (35, 21096),

Gene: Speedwell_29 Start: 22006, Stop: 22380, Start Num: 16
Candidate Starts for Speedwell_29:
(11, 21811), (13, 21943), (Start: 16 @22006 has 11 MA's), (17, 22018), (18, 22033), (21, 22087), (23, 22120), (33, 22240), (35, 22303), (40, 22372),

Gene: Superstar_26 Start: 20776, Stop: 21162, Start Num: 16
Candidate Starts for Superstar_26:
(7, 20326), (15, 20770), (Start: 16 @20776 has 11 MA's), (20, 20830), (33, 21022),

Gene: Tefunt_23 Start: 19512, Stop: 19886, Start Num: 16
Candidate Starts for Tefunt_23:
(Start: 16 @19512 has 11 MA's), (20, 19557), (21, 19593), (27, 19653), (34, 19791), (38, 19857), (40, 19878), (41, 19881),

Gene: Vanseggelen_29 Start: 20234, Stop: 20620, Start Num: 16
Candidate Starts for Vanseggelen_29:
(9, 19895), (10, 19982), (Start: 16 @20234 has 11 MA's), (21, 20324), (22, 20348), (25, 20366), (27, 20384), (28, 20396), (30, 20438), (33, 20480), (39, 20597), (40, 20612),

Gene: Verabelle_25 Start: 20280, Stop: 20666, Start Num: 16
Candidate Starts for Verabelle_25:
(Start: 16 @20280 has 11 MA's), (27, 20430), (28, 20442), (30, 20484), (33, 20526), (40, 20658),

Gene: VieEnRose_25 Start: 19667, Stop: 20053, Start Num: 16
Candidate Starts for VieEnRose_25:
(Start: 16 @19667 has 11 MA's), (20, 19721), (21, 19757), (22, 19781),

Gene: ZamZam_27 Start: 20738, Stop: 21115, Start Num: 16
Candidate Starts for ZamZam_27:
(Start: 16 @20738 has 11 MA's), (21, 20819), (25, 20861), (28, 20891), (33, 20975), (37, 21074),

Gene: phiCAM_25 Start: 22546, Stop: 22932, Start Num: 16
Candidate Starts for phiCAM_25:
(Start: 16 @22546 has 11 MA's), (21, 22636), (25, 22678), (28, 22708), (33, 22792), (40, 22924),