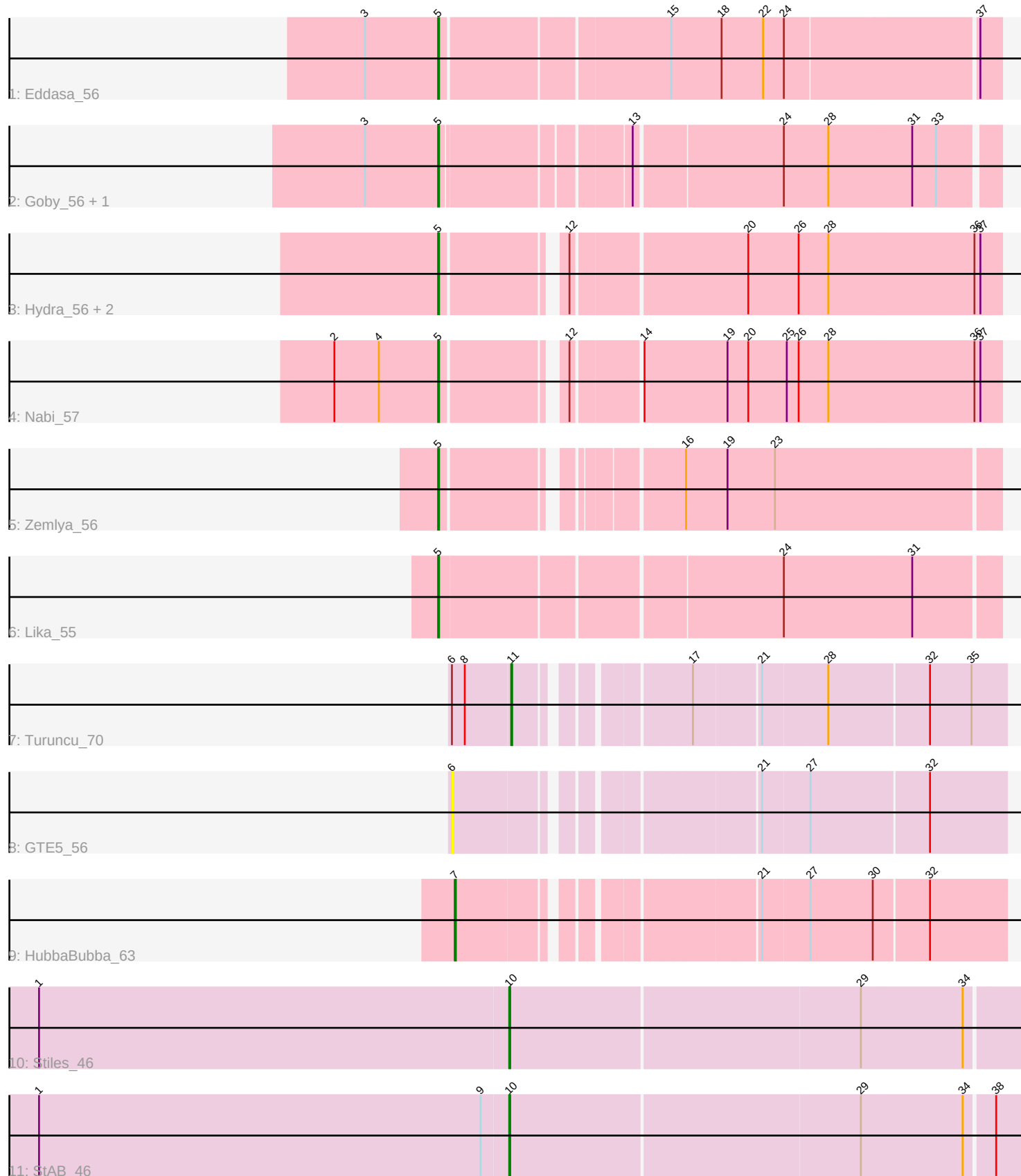


Pham 331376



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 331376 Report

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

Pham number 331376 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Eddasa_56
- Track 2 : Goby_56, Toma_56
- Track 3 : Hydra_56, Esperer_55, Leviticus_55
- Track 4 : Nabi_57
- Track 5 : Zemlya_56
- Track 6 : Lika_55
- Track 7 : Turuncu_70
- Track 8 : GTE5_56
- Track 9 : HubbaBubba_63
- Track 10 : Stiles_46
- Track 11 : StAB_46

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 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Eddasa_56, Esperer_55, Goby_56, Hydra_56, Leviticus_55, Lika_55, Nabi_57, Toma_56, Zemlya_56,

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

-

Genes that do not have the "Most Annotated" start:

- GTE5_56, HubbaBubba_63, StAB_46, Stiles_46, Turuncu_70,

Summary by start number:

Start 5:

- Found in 9 of 14 (64.3%) of genes in pham
- Manual Annotations of this start: 9 of 13
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Eddasa_56 (BD1), Esperer_55 (BD1), Goby_56 (BD1), Hydra_56 (BD1), Leviticus_55 (BD1), Lika_55 (BD1), Nabi_57 (BD1), Toma_56 (BD1), Zemlya_56 (BD1),

Start 6:

- Found in 2 of 14 (14.3%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: GTE5_56 (CR1),

Start 7:

- Found in 1 of 14 (7.1%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HubbaBubba_63 (CR4),

Start 10:

- Found in 2 of 14 (14.3%) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: StAB_46 (EP), Stiles_46 (EP),

Start 11:

- Found in 1 of 14 (7.1%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Turuncu_70 (CR1),

Summary by clusters:

There are 4 clusters represented in this pham: CR1, BD1, EP, CR4,

Info for manual annotations of cluster BD1:

- Start number 5 was manually annotated 9 times for cluster BD1.

Info for manual annotations of cluster CR1:

- Start number 11 was manually annotated 1 time for cluster CR1.

Info for manual annotations of cluster CR4:

- Start number 7 was manually annotated 1 time for cluster CR4.

Info for manual annotations of cluster EP:

- Start number 10 was manually annotated 2 times for cluster EP.

Gene Information:

Gene: Eddasa_56 Start: 41265, Stop: 40723, Start Num: 5

Candidate Starts for Eddasa_56:

(3, 41334), (Start: 5 @41265 has 9 MA's), (15, 41046), (18, 40995), (22, 40953), (24, 40932), (37, 40743),

Gene: Esperer_55 Start: 40815, Stop: 40285, Start Num: 5
Candidate Starts for Esperer_55:
(Start: 5 @40815 has 9 MA's), (12, 40707), (20, 40539), (26, 40488), (28, 40458), (36, 40311), (37, 40305),

Gene: GTE5_56 Start: 46745, Stop: 46242, Start Num: 6
Candidate Starts for GTE5_56:
(6, 46745), (21, 46481), (27, 46436), (32, 46319),

Gene: Goby_56 Start: 42305, Stop: 41778, Start Num: 5
Candidate Starts for Goby_56:
(3, 42374), (Start: 5 @42305 has 9 MA's), (13, 42131), (24, 41987), (28, 41942), (31, 41858), (33, 41834),

Gene: HubbaBubba_63 Start: 48828, Stop: 48328, Start Num: 7
Candidate Starts for HubbaBubba_63:
(Start: 7 @48828 has 1 MA's), (21, 48567), (27, 48522), (30, 48459), (32, 48405),

Gene: Hydra_56 Start: 41651, Stop: 41121, Start Num: 5
Candidate Starts for Hydra_56:
(Start: 5 @41651 has 9 MA's), (12, 41543), (20, 41375), (26, 41324), (28, 41294), (36, 41147), (37, 41141),

Gene: Leviticus_55 Start: 41002, Stop: 40472, Start Num: 5
Candidate Starts for Leviticus_55:
(Start: 5 @41002 has 9 MA's), (12, 40894), (20, 40726), (26, 40675), (28, 40645), (36, 40498), (37, 40492),

Gene: Lika_55 Start: 42316, Stop: 41774, Start Num: 5
Candidate Starts for Lika_55:
(Start: 5 @42316 has 9 MA's), (24, 41986), (31, 41857),

Gene: Nabi_57 Start: 42255, Stop: 41725, Start Num: 5
Candidate Starts for Nabi_57:
(2, 42360), (4, 42315), (Start: 5 @42255 has 9 MA's), (12, 42147), (14, 42084), (19, 42000), (20, 41979), (25, 41940), (26, 41928), (28, 41898), (36, 41751), (37, 41745),

Gene: StAB_46 Start: 35820, Stop: 36344, Start Num: 10
Candidate Starts for StAB_46:
(1, 35346), (9, 35793), (Start: 10 @35820 has 2 MA's), (29, 36168), (34, 36270), (38, 36297),

Gene: Stiles_46 Start: 35275, Stop: 35799, Start Num: 10
Candidate Starts for Stiles_46:
(1, 34801), (Start: 10 @35275 has 2 MA's), (29, 35623), (34, 35725),

Gene: Toma_56 Start: 42308, Stop: 41778, Start Num: 5
Candidate Starts for Toma_56:
(3, 42377), (Start: 5 @42308 has 9 MA's), (13, 42131), (24, 41987), (28, 41942), (31, 41858), (33, 41834),

Gene: Turuncu_70 Start: 53491, Stop: 53045, Start Num: 11
Candidate Starts for Turuncu_70:

(6, 53548), (8, 53536), (Start: 11 @53491 has 1 MA's), (17, 53347), (21, 53284), (28, 53221), (32, 53122), (35, 53080),

Gene: Zemlya_56 Start: 42043, Stop: 41525, Start Num: 5

Candidate Starts for Zemlya_56:

(Start: 5 @42043 has 9 MA's), (16, 41836), (19, 41794), (23, 41746),