The manuscript described a mRNA profiling analysis of 30 adhesion-GPCRs in the rat gastrointestinal tract. The relative expression levels of 30 adhesion-GPCRs were analyzed by qRT-PCR analysis in the rat GI tract divided into many different sections. The authors identified three categories of expression patterns in the analysis: ubiquitous, widespread and restricted. The authors concluded that the adhesion-GPCRs might play an important role in the function of GI tract and considered them as potential drug targets.

Extended from previous studies on the expression patterns of adhesion-GPCRs by the same group of authors, this manuscript is an attempt to look at the detailed expression profiles of adhesion-GPCRs in the GI tract. Thus, the GI tract was divided into many different segments. The data suggested that adhesion-GPCR members are expressed ubiquitously, widely, or restricted in the GI tract. The expression patterns of individual adhesion-GPCR hence implicate the potential importance in the GI tract function.

The data presented in the manuscript are overall well-controlled and provided a satisfactory explanation. The information might be useful for the later physiological and pathological study of GI tract. However, caution should be taken as the expression data are purely at the transcript levels. There are a few minor points that need to be clarified better.

Minor Essential Revisions:

1. The primers used in the study are located in the 7TM region. However, it is well known that many adhesion-GPCR genes undergo extensive alternative splicing and generate multiple transcripts that include soluble isoforms. Hence, the primers used might not cover the entire transcript populations. This should be somehow discussed in the paper. Also, it might be a good idea to list the expected size of the PCR product in the Table.

2. It will be beneficial to summarize the data in a Table listing the relative expression levels of all 30 adhesion-GPCR members based on the phylogenetic groups.

Level of interest: An article whose findings are important to those with closely related research interests
**Quality of written English:** Acceptable

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I declare that I have no competing interests