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| --- | --- | --- | --- | --- | --- | --- |
| Title of Musical | Frozen | Frozen | Come From Away | Come From Away | The Book of Mormon | The Book of Mormon |
| Title of Song | For The First Time In Forever | For The First Time In Forever | Prayer | I Am Here | Hello! | Sal Tlay Ka Siti |
| Artist/s | Kristen Bell and Idina Menzel |  | Chad Kimball and ‘Come From Away’ Company | Q Smith | Andrew Rannells, Josh Gad, Rory O'Malley, Kevin Duda, Clark Johnsen, Justin Bohon, Brian Sears, Scott Barnhardt, Benjamin Schrader, Lewis Cleale & Jason Michael Snow | Nikki M. James |
| Composer/s | Robert Lopez and Kristen Anderson-Lopez | Robert Lopez and Kristen Anderson-Lopez | Irene Sankoff and David Hein | Irene Sankoff and David Hein | Robert Lopez, Matt Stone and Trey Parker | Robert Lopez, Matt Stone and Trey Parker |
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| Genre | Musical |  | Folk Rock Musical | Folk Rock Musical | Musical Comedy | Musical Comedy |
| Source | iTunes |  | iTunes | iTunes | iTunes | iTunes |
| File/Audio Format | Wav |  | Wav | Wav | Wav | Wav |
| Number of Channels | 2 |  | 2 | 2 | 2 | 2 |
| Sample Rate | 44. 100Hz |  | 44. 100Hz | 44. 100Hz | 44. 100Hz | 44. 100Hz |
| Bit per second | 256kbps |  | 256kbps | 256kbps | 256kbps | 256kbps |
| Duration | 3mins 45secs |  | 3mins 26secs | 1min 48secs | 2mins 52secs | 3mins 42secs |

Advantage of time-frequency analysis over a wave-form based analysis

As notes have to be played at certain frequencies to be heard and to produce the same volume of sound using time-frequency analysis means an estimation of the notes played in the piece can be extracted. In wave-form analysis it is much harder to see clearly the frequency and it is therefore much harder to guess the notes being played.

* Power of frequency can be determined